COLOR TELEVISION

Chassis : K16A(N)_MI
Model : CL29M40MQ2XXAX

SERVICE Manual

COLOR TELEVISION

CL-29M40MQ

FEATURES

- Turbo Plus
- DNIe jr.
- Low Stand-By Power Wattage
- SOUND Equalizer

This Service Manual is a property of Samsung Electronics Co.,Ltd.
Any unauthorized use of Manual can be punished under applicable International and/or domestic law.

© Samsung Electronics Co., Ltd. **Dec. 2006**
Printed in Korea
AA82-04286A

Table of Contents

Chapter 1 Precaution

- 1-1 Safety Precautions 1-1
- 1-2 Servicing Precautions 1-3
- 1-3 Static Electricity Precautions 1-4
- 1-4 Installation Precautions 1-5

Chapter 2 Product Specification

- 2-1 Product Features 2-1
- 2-2 Key Features 2-2
- 2-3 Specifications Analysis 2-3
- 2-4 Accessories 2-4

Chapter 3 Alignment & Adjustment

- 3-1 Service Instruction 3-1
- 3-2 How to Access Service Mode 3-2
- 3-3 Factory Data 3-3
- 3-4 Service Adjustment 3-10
- 3-5 Software Upgrade 3-12
- 3-6 Replacements & Calibration 3-16

Chapter 4 Exploded View & Part List

- 4-1 CL29M40MQ2XXAX 4-1

Chapter 5 Electrical Part List

- 5-1 CL29M40MQ2XXAX 5-1

Chapter 6 Troubleshooting

- 6-1 Checkpoints by Error Mode 6-1
- 6-2 Troubleshooting Procedures by Error Modes 6-3
- 6-3 Troubleshooting Procedures by ASS'Y 6-4

Chapter 7 Block Diagram

- 7-1 Overall Block Diagram 7-1
- 7-2 Partial Block Diagram 7-2

Chapter 8 Wiring Diagram

- 8-1 Overall Wiring 8-1
- 8-2 Pin Connection 8-2

Chapter 9 PCB Diagram

- 9-1 Main Board 9-1
- 9-2 PIP Module 9-4
- 9-3 CRT Board 9-5

Chapter 10 Schematic Diagram

- 10-1 Power & Deflection Block 10-1
- 10-2 IF & UOC(Chroma_Micom) Block 10-2
- 10-3 PIP & CRT Block 10-3
- 10-4 AV & Sound Block 10-4

1. Precaution

To avoid possible damages or electric shocks or exposure to radiation, follow the instructions below with regard to safety, installation, service and ESD.

1-1 Safety Precautions

1. Make sure all protective devices are properly installed including non-metallic handles and compartment covers when installing or re-installing the chassis or chassis assemblies.

2. Make sure that no gaps exist between the cabinets for children to insert their fingers in to prevent children from receiving electric shocks. Gaps mentioned above include ventilation holes of a too great magnitude between the vaccum tube and the cabinet mask, and the improper installation of the rear cabinet.

   Errors may occur when the resistance is below 1.0 MΩ or over 5.2 MΩ.
   In these cases, make sure that the device is repaired before sending it back to the customer.

3. Check for Electricity Leakage (Figure 1-1)
   Warning: Do not use an insulated transformer for checking the leakage. Use only those current leakage testers or mirroring systems that comply with ANSIC 101.1 and the Underwriter Laboratory's specifications (UL1410, 59.7).

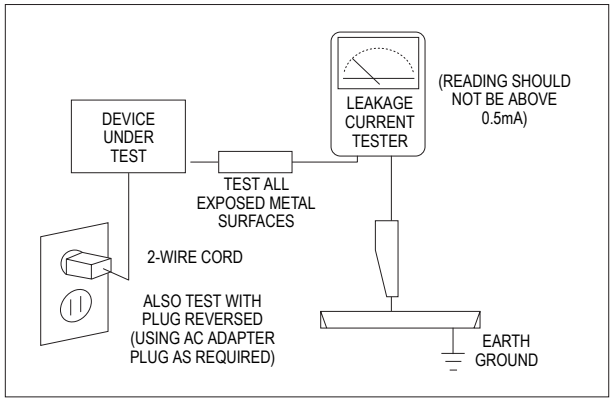

LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5mA)
DEVICE UNDER TEST
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

4. A high voltage is maintained within the specified limits using safety parts, calibration and tolerances. When voltage exceeds the specified limits, check each special part.

5. Warning for Engineering Changes:
   Never make any changes or additions to the circuit design or the internal part for this product.
   Ex: Do not add any audio or video accessory connectors. This might cause physical damage. Furthermore, any changes or additions to the original design/engineering will invalidate the warranty.

6. Warning - Hot Chassis:
   Some TV chassis are directly connected to one end of the AC power cord for electrical reasons.
   Without insulated transformers, the product can only be repaired safely when the chassis is connected to the earthed end of the AC power source.

   To make sure the AC power cord is properly connected, follow the instructions below. Use the voltmeter to measure the voltage between the chassis and the earthed ground. If the measurement is over 1.0V, unplug the AC power cord and change the polarity before re-inserting it. Measure the voltage between the chassis and the ground again.

7. Some TV chassis are shipped with an additional secondary grounding system. The secondary system is adjacent to the AC power line. These two grounding systems are separated in the circuit using an unbreakable/unchangeable insulation material.

8. When any parts, material or wiring appear overheated or damaged, replace them with new regular ones immediately. When any damage or overheating is detected, correct this immediately and make a regular check of possible errors.

9. Check for the original shape of the lead, especially that of the antenna wiring, any sharp edges, the AC power and the high voltage power. Carefully check if the wiring is too tight, incorrectly placed or loose. Never change the space between the part and the printed circuit board. Check the AC power cord for possible damages. Keep the part or the lead away from any heat-emitting materials.

10. Safety Indication:
    Some electrical circuits or device related materials require special attention to their safety features, which cannot be viewed by the naked eye. If an original part is replaced with another irregular one, the safety or protective features will be lost even if the new one has a higher voltage or more watts.

    Critical safety parts should be bracketed with ( ). Use only regular parts for replacements (in particular, flame resistance and dielectric strength specifications). Irregular parts or materials may cause electric shock or fire.

1-2 Servicing Precautions

Warning 1: First carefully read the "Safety Instruction" in this service manual.
When there is a conflict between the service and the safety instructions, follow the safety instruction at all times.

Warning 2: Any electrolytic capacitor with the wrong polarity will explode.

1. The service instructions are printed on the cabinet, and should be followed by any service personnel.

2. Make sure to unplug the AC power cord from the power source before starting any repairs.
   (a) Remove or re-install parts or assemblies.
   (b) Disconnect the electric plug or connector, if any.
   (c) Connect the test part in parallel with the electrolytic capacitor.

3. Some parts are placed at a higher position than the printed board. Insulated tubes or tapes are used for this purpose. The internal wiring is clamped using buckles to avoid contact with heat emitting parts. These parts are installed back to their original position.

4. After the repair, make sure to check if the screws, parts or cables are properly installed. Make sure no damage is caused to the repaired part and its surroundings.

5. Check for insulation between the blade of the AC plug and that of any conductive materials (i.e. the metal panel, input terminal, earphone jack, etc).

6. Insulation Check Process: Unplug the power cord from the AC source and turn the switch on. Connect the insulating resistance meter (500v) to the AC plug blade.

   The insulating resistance between the blade of the AC plug and that of the conductive material should be more than 1 MΩ.

7. Any B+ interlock should not be damaged.
   If the metal heat sink is not properly installed, no connection to the AC power should be made.

8. Make sure the grounding lead of the tester is connected to the chassis ground before connecting to the positive lead. The ground lead of the tester should be removed last.

9. Beware of risks of any current leakage coming into contact with the high-capacity capacitor.

10. The sharp edges of the metal material may cause physical damage, so ensure wearing protective gloves during the repair.

1-3 Static Electricity Precautions

1. Some semi-conductive ("solid state") devices are vulnerable to static electricity. These devices are known as ESD. ESD includes the integrated circuit and the field effect transistor. To avoid any materials damage from electrostatic shock, follow the instructions described below.

2. Remove any static electricity from your body by connecting the earth ground before handling any semi-conductive parts or ass'ys. Alternatively, wear a dischargeable wrist-belt.
   (Make sure to remove any static electricity before connecting the power source - this is a safety instruction for avoiding electric shock)

3. Remove the ESD ass'y and place it on a conductive surface such as aluminum foil to prevent accumulating static electricity.

4. Do not use any Freon-based chemicals.
   Such chemicals will generate static electricity that causes damage to the ESD.

5. Use only grounded-tip irons for soldering purposes.

6. Use only anti-static solder removal devices.
   Most solder removal devices do not support an anti-static feature. A solder removal device without an anti-static feature can store enough static electricity to cause damage to the ESD.

7. Do not remove the ESD from the protective box until the replacement is ready. Most ESD replacements are covered with lead, which will cause a short to the entire unit due to the conductive foam, aluminum foil or other conductive materials.

8. Remove the protective material from the ESD replacement lead immediately after connecting it to the chassis or circuit ass'y.

9. Take extreme caution in handling any uncovered ESD replacements. Actions such as brushing clothes or lifting your leg from the carpet floor can generate enough static electricity to damage the ESD.

CAUTION

These servicing instructions are for use by qualified service personnel only.
To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

1-4 Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.

2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.

3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.

4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.

5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.

6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the high-voltage cable or the antenna falling over may cause fire or electric shock.

7. Check the basics of the screen test.
   - Image position/size, Tilt adjustment

MEMO

3. Alignment & Adjustment

3-1 Service Instruction

1. General Adjustment :
   In general, a color TV can provide ideal visual quality by adjusting the basic settings such as the vertical size, horizontal size, focus, etc.
   Display a black and white picture on the screen to check if the picture is clearly displayed.
   If there are some 'spotted' points on the screen when displaying a black and white picture, degauss the screen using the degauss coil. If the spotted points remain, re-adjust the purity and the convergence.
   This completes the basic performance examination.

   ⚠ Notice.
   - ■ These adjustments and the check list are only applied to K16A chassis-applied models.
   - ■ Only use 230V for the measurement set. It is recommended using an insulation transformer when supplying power to the set so as to prevent shock to the set or to yourself.
   - ■ These adjustment specifications have been created on the basis of the domestic K16A chassis-applied remote control model. Some of the contents may be changed subject to the sales location and the product specifications.

※ When replacing the Module Service Instruction

1. When replacing the MAIN Board : Tilt adjustment, Focus adjustment, Screen voltage, W/B adjustment are all required. Since the settings including the Channel information, Deflection, etc. are saved to the EEPROM, recogfigure these settings when replacing the MAIN Board.
   The notation of the software information : T-RHMNSA-1000 refer to "GREEN2 BASIC MODEL EUROPE. ver.1000"
   Since the settings including the Channel information, Deflection, etc. are saved to the EEPROM, recogfigure these settings when replacing the MAIN Board.

2. When replacing the CRT Ass'y : No adjustments required

3. When replacing the front panel Master Power switch : No adjustments required

4. When replacing the Side AV Ass'y : No adjustments required

5. When replacing the PIP Module : No adjustments required

6. When replacing the Control Ass'y : No adjustments required

7. When replacing the PFC Ass'y : No adjustments required

3-2 How to Access Service Mode

1. To enter Service Mode, press the keys on the remote control according to the following sequence. (in Stand-by status)

   Mute → 1 → 8 → 2 → Power On

   ※ When failing to enter Service Mode, repeat the procedure above.

2. The initial screen of Service Mode.

3. Functions of the Keys within Service Mode.

MENU	Show all menus
▲ / ▼	Move the cursor to select an item.
◀ / ▶	Adjust the selected configuration value

3-3 Factory Data

★ The underlined are items applied during the service adjustment. None of the others should be adjusted.

1. Option1

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	System	Var.	CL	CL	CL
2	Video Mute	Var.	400msec	400msec	400msec
3	AV Jack	Var.	2RCA+S+DVD	2RCA+S+DVD	2RCA+S+DVD
4	Sound	Var.	Stereo	Stereo	Stereo
5	Volume Curve	Var.	Large	Large	Large
6	Initial Lang.	Var.	Engilsh	Engilsh	Engilsh
7	Tilt	Var.	Off	Off	On
8	DNIe Jr	Var.	Off	On	On
9	PIP	Var.	Off	Off	2-Tuner
10	Auto Power On	Var.	Off	Off	Off
11	Caption	Var.	On	On	On
12	Vchip	Var.	Off	Off	Off
13	Child Look	Var.	Off	Off	Off
14	Plug Play	Var.	On	On	On
15	StandBy LED	Var.	Off	Off	Off

2. Option2

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	X-Ray Protect	Var.	Off	Off	Off
2	High Deviation	Var.	Off	Off	Off
3	V-Guard	Var.	On	On	On
4	ACS	Var.	Off	Off	Off
5	CRT	Var.	4:3 Zoom	4:3 Zoom	4:3 Zoom
6	LNA	Var.	Off	Off	On
7	Hotel Mode	Var.	Off	Off	Off
8	Philippines	Var.	Off	Off	Off

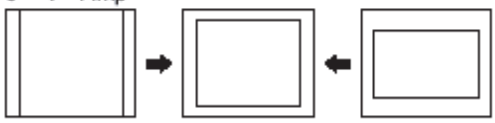
3. Deflection(NTSC 60Hz)

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	V Amp	Var.	47	47	47
2	V Shift	Var.	24	24	24
3	H EW	Var.	48	48	48
4	H Shift	Var.	49	49	49
5	V Linearity	Var.	30	30	30
6	V S-Correction	Fixed	32	32	32
7	V Slope	Fixed	30	30	30
8	V Scroll	Fixed	25	25	25
9	V Zoom	Fixed	48	48	48
10	H Parabola	Var.	45	45	45
11	Upper Corner	Var.	51	51	51
12	Lower Corner	Var.	54	54	54
13	H Trapezium	Var.	22	22	22
14	Bow	Var.	26	26	26
15	Angle	Var.	29	29	29

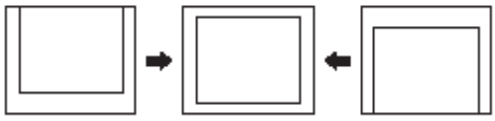
4. Deflection(PAL N 50Hz)

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	V Amp	Var.	0	0	0
2	V Shift	Var.	0	0	0
3	H EW	Var.	0	0	0
4	H Shift	Var.	-6	-6	-6
5	V Linearity	Fixed	0	0	0
6	V S-Correction	Fixed	0	0	0
7	V Slope	Fixed	0	0	0
8	V Scroll	Fixed	0	0	0
9	V Zoom	Fixed	0	0	0
10	H Parabola	Fixed	0	0	0
11	Upper Corner	Fixed	0	0	0
12	Lower Corner	Fixed	0	0	0
13	H Trapezium	Fixed	0	0	0
14	Bow	Fixed	0	0	0
15	Angle	Fixed	0	0	0

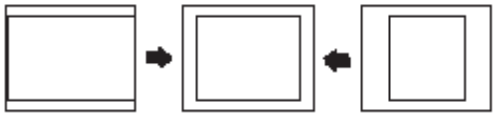
0 V - Amp



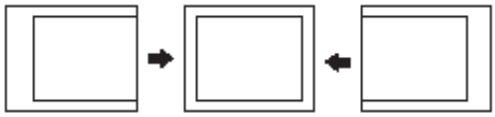
1 V-Shift



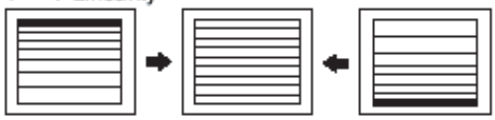
2 H-EW



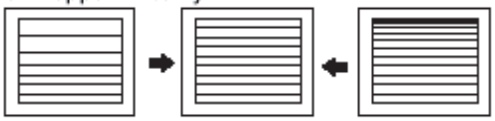
3 H-Shift



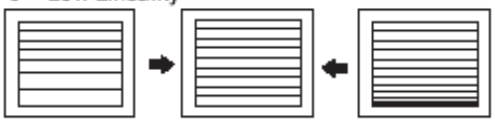
4 V-Linearity



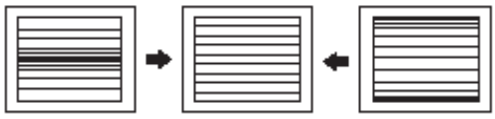
5 Upper Linearity



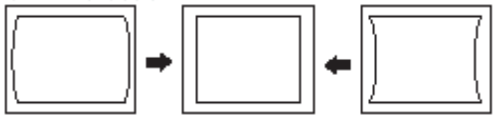
6 Low Linearity



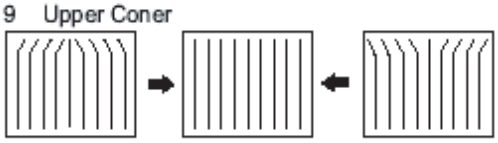
7 V SC



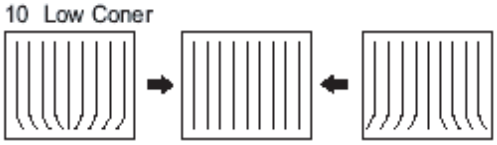
8 H-Parabola



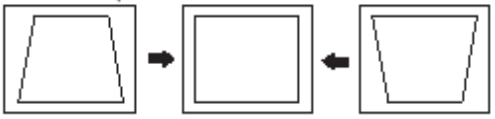
9 Upper Coner



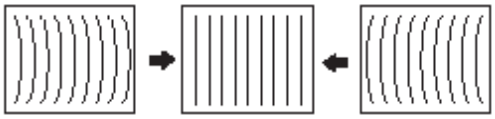
10 Low Coner



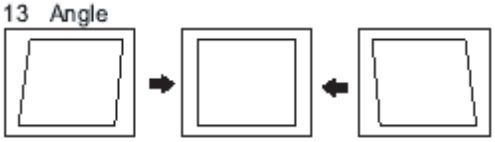
11 H- Trapezuim



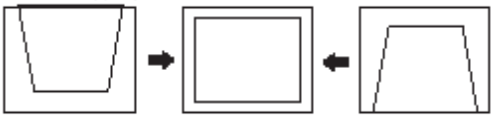
12 Bow



13 Angle



14 V Position



5. Video Adjust1

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	R Cutoff	Var.	20	20	20
2	B Cutoff	Var.	49	49	49
3	R Drive	Var.	29	29	29
4	G Drive	Fixed	15	15	15
5	B Drive	Var.	21	21	21
6	Sub Bright	Var.	17	17	17
7	Sub Contrast	Var.	7	7	7
8	PAL/SECAM Sub Color	Fixed	23	23	23
9	NTSC Sub Color	Fixed	21	21	21
10	NTSC Sub Tint	Fixed	15	15	15
11	YUV Sub Tint	Fixed	32	32	32
12	AKB Option	Fixed	0	0	0
13	Peaking CFO & Delay Mode	Fixed	1	1	1
14	Sub Sharpness-RF	Fixed	10	10	10

6. Video Adjust2

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	Melody Volume	Fixed	25	25	25
2	RF AGC	Var.	24	24	24
3	IF AGC Speed	Fixed	1	1	1
4	VM Mode	Fixed	0	0	0
5	VM Gain	Fixed	0	0	0
6	VM Delay	Fixed	0	0	0
7	Blue Stretch	Fixed	0	0	0
8	G2 Adjust Bright	Fixed	48	48	48
9	Soft Clipping Level	Fixed	1	1	1
10	Peak White Limit	Fixed	8	8	8
11	Cathode Drive Level	Fixed	4	4	4
12	IF Demodulator	Fixed	30	30	30
13	Fast Filter IF PLL	Fixed	0	0	0
14	FOAB	Fixed	3	3	3

7. Video Adjust3

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	PIP Contrast	Fixed	10	10	10
2	PIP Bright	Fixed	4	4	4
3	PIP Tint	Fixed	3	3	3
4	PIP Color	Fixed	8	8	8
5	PIP YC Delay	Fixed	12	12	12
6	PIP PAL V.Pos	Fixed	1	1	1
7	PIP NTSC V. Pos	Fixed	1	1	1
8	PIP H. Pos	Fixed	2	2	2
9	PIP R Cutoff	Fixed	7	7	7
10	PIP G Cutoff	Fixed	6	6	6
11	PIP B Cutoff	Fixed	7	7	7
12	PIP R Drive	Fixed	139	139	139
13	PIP G Drive	Fixed	152	152	152
14	PIP B Drive	Fixed	142	142	142
15	PIP AGC Mode	Fixed	3	3	3

8. Video Adjust4

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	IF Preset Value 1	Fixed	32	32	32
2	IF Preset Value 2	Fixed	32	32	32
3	IF PLL Osc Preset Value	Fixed	0	0	0
4	Preset Gain R	Fixed	20	20	20
5	Preset Gain G	Fixed	20	20	20
6	Preset Gain B	Fixed	20	20	20
7	Turbo Center Frequency	Fixed	0	0	0
8	DCXO Caps/NICAM Center	Fixed	59	59	59
9	DCXO Scaning Control Gain	Fixed	3	3	3
10	Component H-Shift Offset	Fixed	-4	-4	-4

9. Video Adjust5

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	System I Output Signal AMP	Fixed	0	0	0
2	Bypass of Chroma Base Band	Fixed	1	1	1
3	Fixed Beam Current	Fixed	0	0	0
4	Fixed Beam Current 1	Fixed	0	0	0
5	IF Sensitivity	Fixed	0	0	0
6	Forced Digital Interface	Fixed	0	0	0
7	Enable Digital Interface	Fixed	0	0	0
8	Sync Performance Trick Mode	Fixed	0	0	0
9	Vertical Overscan	Fixed	0	0	0
10	Beam Current Limiting	Fixed	0	0	0
11	Comb filter	Fixed	0	0	0
12	De Interlace	Fixed	0	0	0
13	Chroma Trap Mode	Fixed	0	0	0
14	Black Current Measure Line	Fixed	0	0	0
15	EHT Tracking Mode	Fixed	1	1	1

10. YC Delay

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	PAL Delay	Fixed	8	8	8
2	NTSC Delay	Fixed	8	8	8
3	PAL AV Delay	Fixed	8	8	8
4	NTSC AV Delay	Fixed	8	8	8

11. Others

No	Item	Var./Fixed	Model		
			CL29M16MQ	CL29M2MQ	CL29M21FQ CL29T21FQ
1	Service Blanking	Fixed	0	0	0
2	High Current Level	Fixed	1	1	1
3	Black Area	Fixed	2	2	2
4	Black Stretch	Fixed	2	2	2
5	OSD Brightness	Fixed	10	10	10
6	PWL Active	Fixed	1	1	1
7	Bypass Peaking Delay	Fixed	0	0	0
8	Ratio Pre. & After Shoot	Fixed	2	2	2
9	Ratio Posi. & Nega Peaks	Fixed	1	1	1
10	Dynamic Skin	Fixed	0	0	0
11	Gamma & White Stretch	Fixed	1	1	1
12	Video Depandent Coring	Fixed	2	2	2
13	PAL/NTSC Ident Sensitivity	Fixed	1	1	1
14	Comb Filter Diode Clamp	Fixed	1	1	1
15	DC Transfer Ratio	Fixed	1	1	1

12. Bus Stop : Off

13. Checksum : 0000

14. G2 Adjust : Screen Adjust OK/NG/Obove

15. Reset

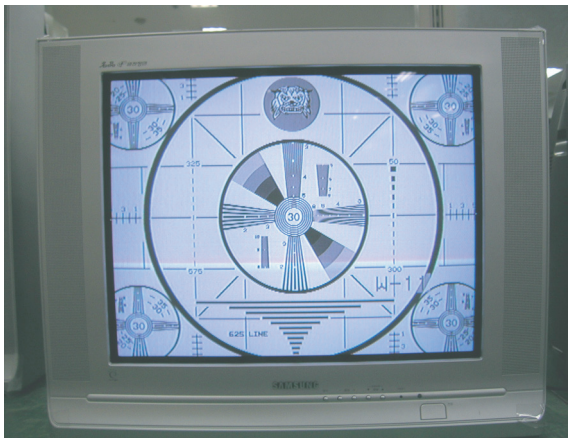
Item	DATA		
MICOM(UOC3) Version NO.	T-RHMNSA-**** 2005/**/**	T-RHMNSA-**** 2005/**/**	T-RHMNSA-**** 2005/**/**
White Balance (NTSC/PAL N-M)	275/275/40ft 265/265/2.0ft	275/275/40ft 265/265/2.0ft	275/275/40ft 265/265/2.0ft

3-4 Service Adjustment

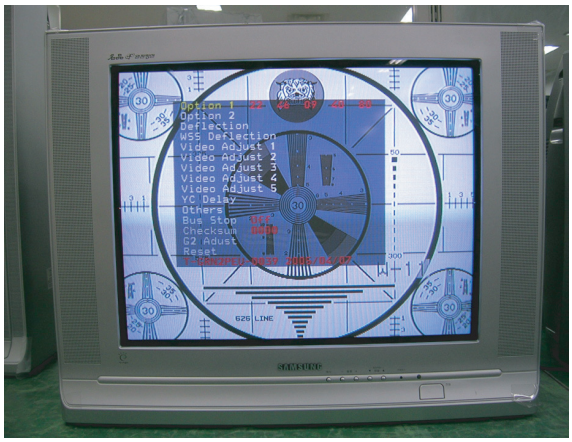
3-4-1 Adjusting the Picture Size

■ Since the K16A chassis includes a deflection adjustment of the Factory Data, adjustments must be performed according to the following procedures when replacing the Main Board.

1. Display the Lion pattern.

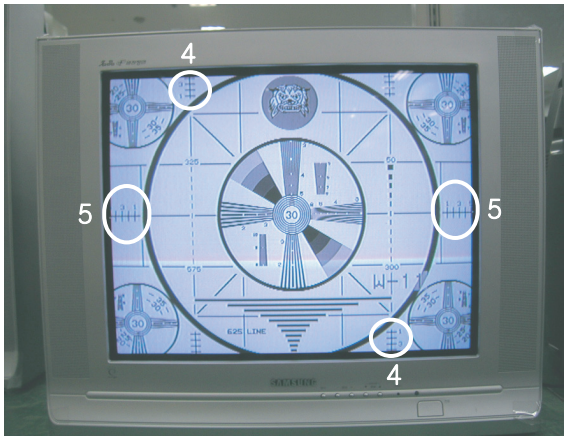


2. Press "Power Off → Mute → 1 → 8 → 2 → Power On" using the remote control and enter Factory Mode.



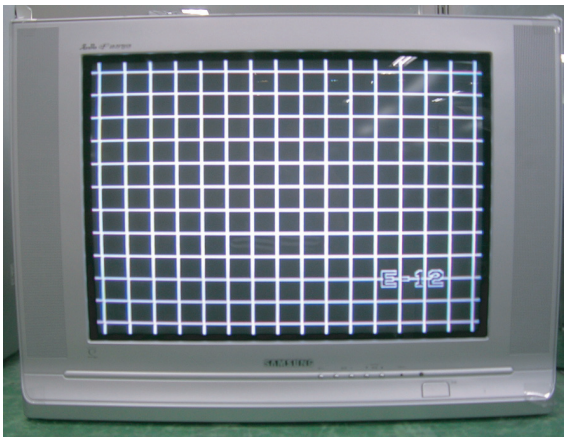
3. Enter Deflection Mode.

4. Adjust the V-AMP, V-SHIFT, H-AMP and H-SHIFT items so that the width becomes 5 and the height becomes 4.



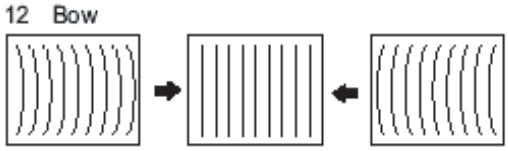
3-4-2 Adjusting the Picture Straight Lines

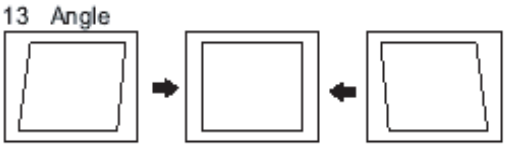
1. Display the Cross Hatch pattern.



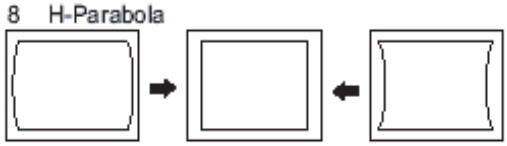
2. Adjust settings other than V-AMP, V-SHIFT, H-AMP and H-SHIFT so that straight lines are displayed without curves.

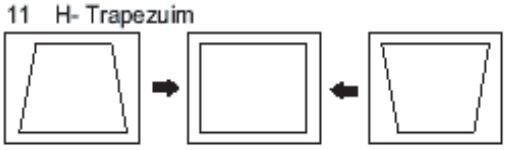
3. Adjust BOW and the Angle settings so that the center line becomes a straight line.



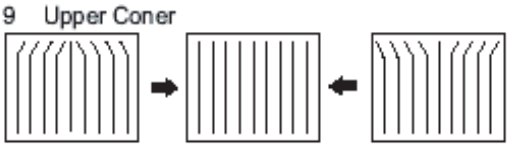


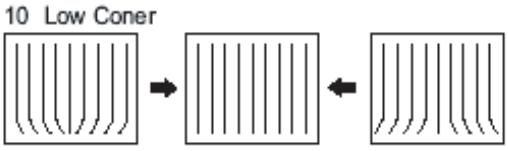
4. Adjust the H-Parabola and H-Trapezium settings so that the left and right lines become straight.



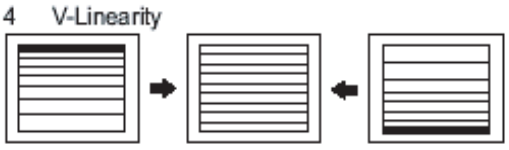


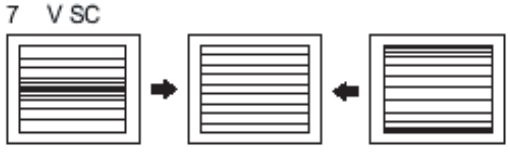
5. Adjust the Upper Corner and the Low Corner settings so that the end of the lines become straight.





6. Adjust the V-Linearity and V-SC settings so that the intervals of the horizontal lines become uniform.





7. When the adjustments are complete, display the Lion pattern and check that the picture size has not been changed. If there is no change, finish the adjustments.

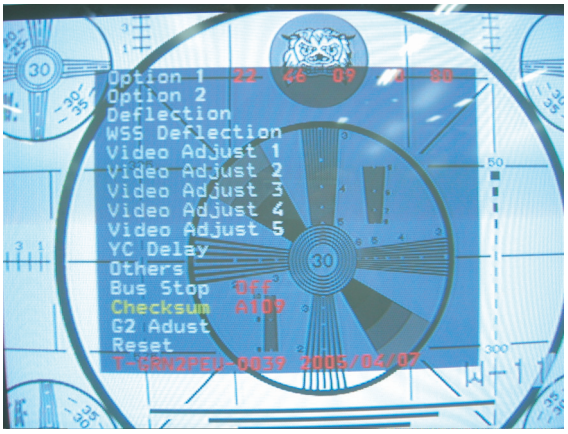
3-5 Software Upgrade

3-5-1 Checking the Version of the Software (Analog SW)

1. To enter Service Mode, press the keys on the remote control according to the following sequence. (in Stand-by status)

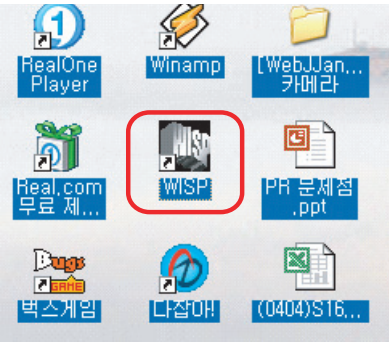
   Mute → 1 → 8 → 2 → Power On

2. When entering Service mode, the software information is displayed at the top of the service mode menu OSD.
   ex) T-RHMNSA-1000 20XX/XX/XX

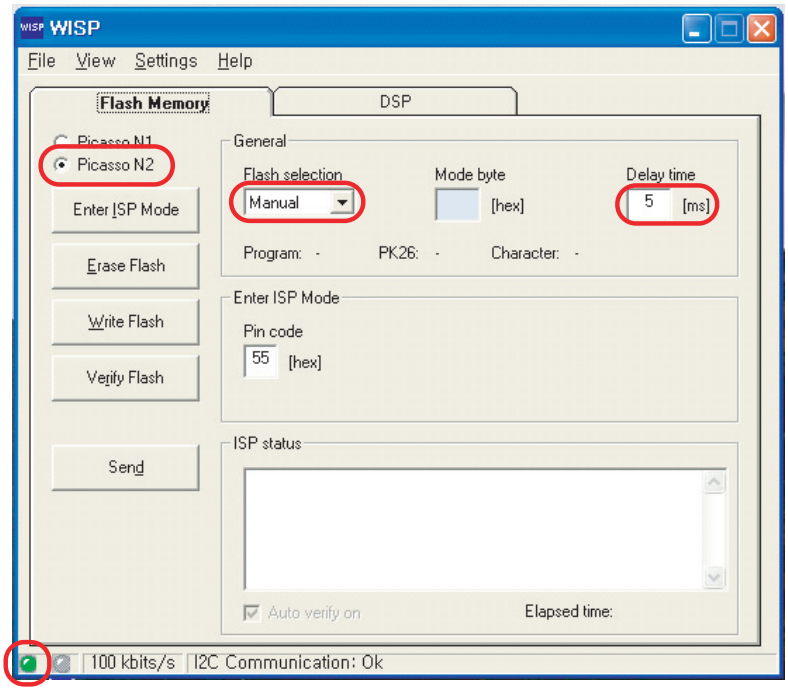


3-5-2 Service Download Procedure

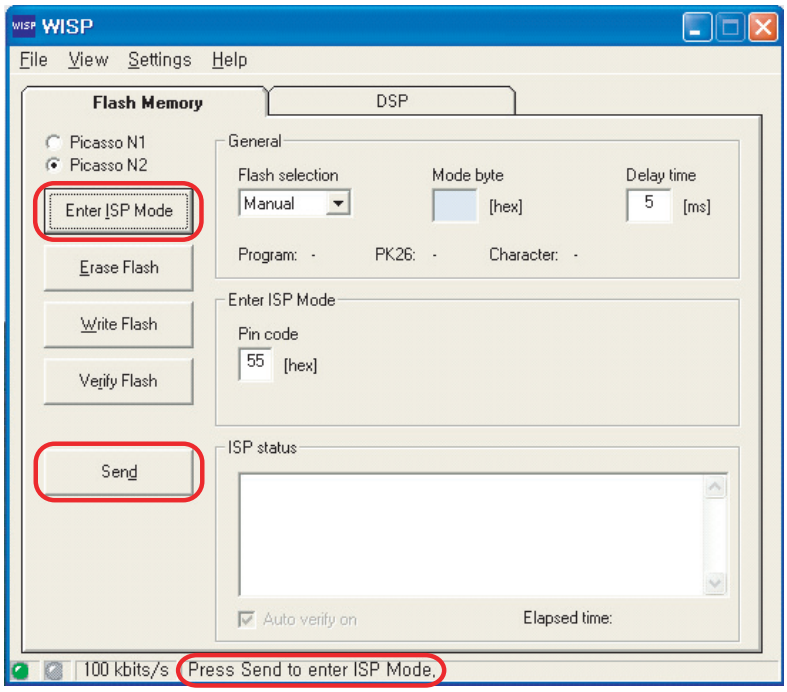
1. Double click the your desktop “WISP” icon.



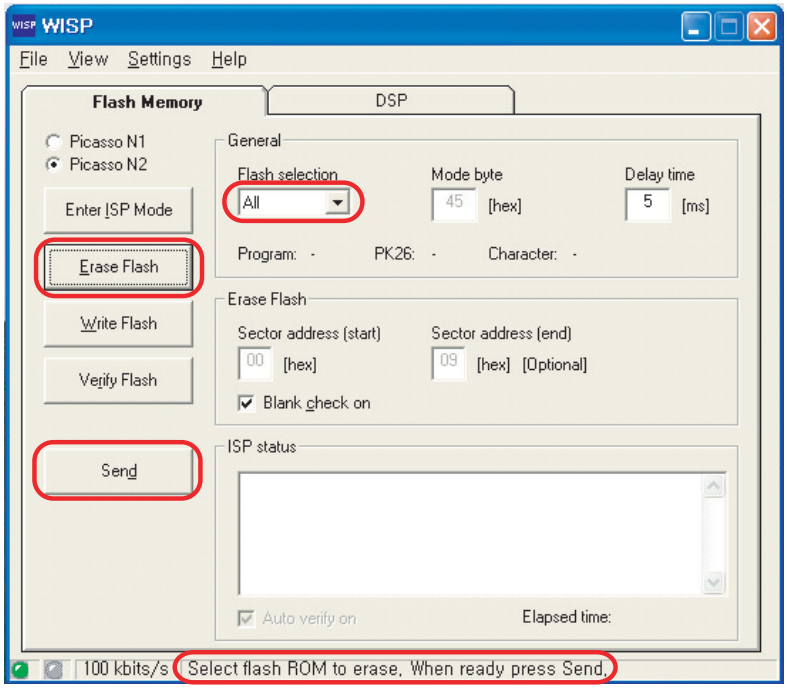
2. Check the standard
   - Check the appoint "Picasso N2"
   - Check the "Flash selection" item is appoint "Manual"
   - You can adjust program delay time for program speed but we use the normal "5[ms]"
   - Check the green lamp if this is sometime red lamp you can not programming



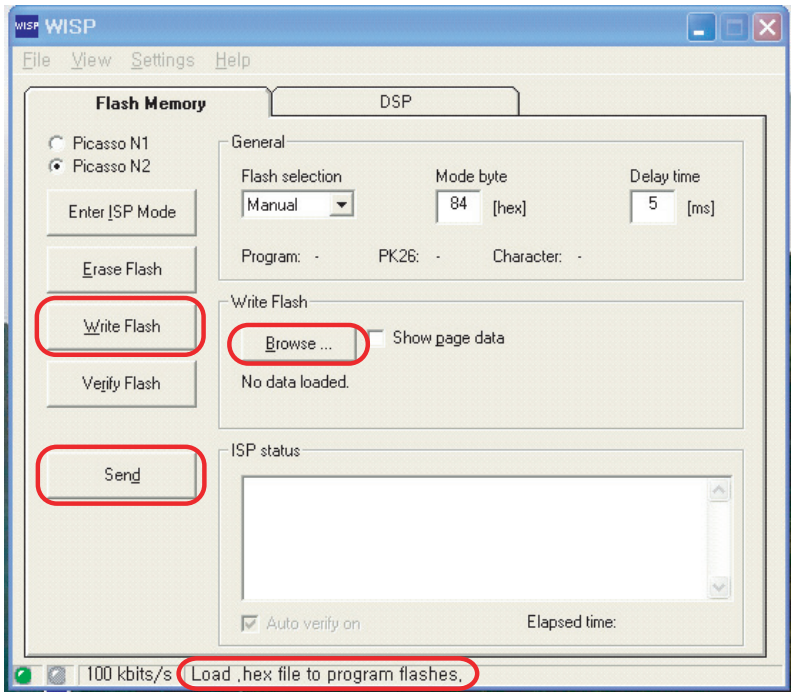
3. Check the IIC line
   - Click the “Enter ISP Mode” button For IIC bus line problem or not
   - Change the “Press Send to enter ISP Mode”
   - Click the “Send” button



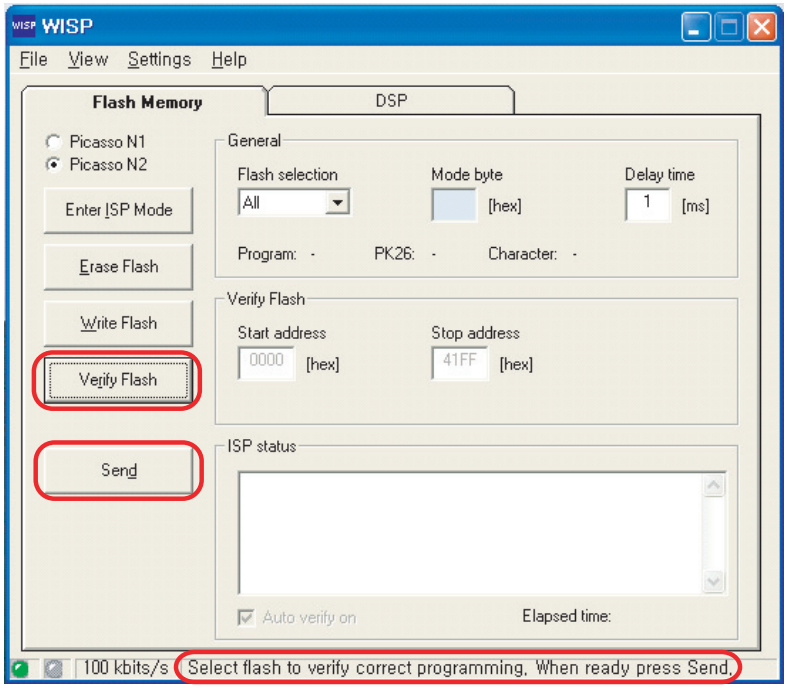
4. Erase before program
   - Click the “Erase Flash” button for before program erase
   - You can select flash selection item but we use normal “All” mode
   - Change the “Select flash ROM to erase. When ready press Send.”
   - Click the “Send” button



5. Write new program
   - Click the “Write Flash” button for new program download
   - Change the “Load.hex file to program flashes.”
   - Click the “Browse” button and find the new program folder in your computer
   - Click the “Send” button



6. Verify new program
   - Click the “Verify Flash” button
   - Change the “Select flash to verify correct programming. When ready press Send.”
   - Click the “Send” button

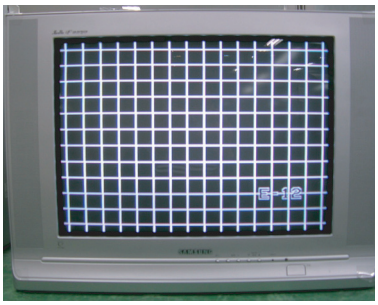


3-6 Replacements & Calibration

3-6-1 Adjusting the Focus

■ Adjustments must be performed according to the following procedures when replacing the K16A chassis, CRT PCB, FBT or CRT.

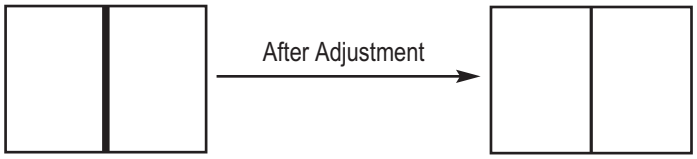
1. Display the Cross Hatch pattern. ⟶

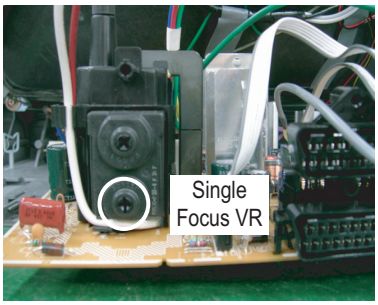


2. Set the Screen Adjustment to "Standard".

3. Turn the Static Focus VR clockwise to the maximum position.
   (End of clockwise direction)

4. Slowly turn the Static Focus VR counter clockwise so that the center vertical line is the most clearly displayed. [adjusted point : Center(2/1)]





5. Check the entire screen focus and repeat steps 3 to 4, if necessary.

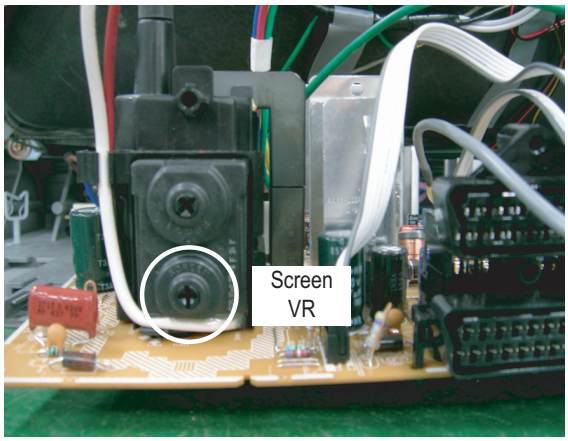
3-6-2 Adjusting the Screen Voltage

1. Select "Power Off → Mute → 1 → 8 → 2 → Power On" to enter Service Mode.

2. Initialize all settings to the values appropriate to the corresponding model.

3. Display the Toshiba pattern.

4. First check IBRM in "G2 Adjust" of Factory and adjust Screen VR until the color of IBRM item turns green.

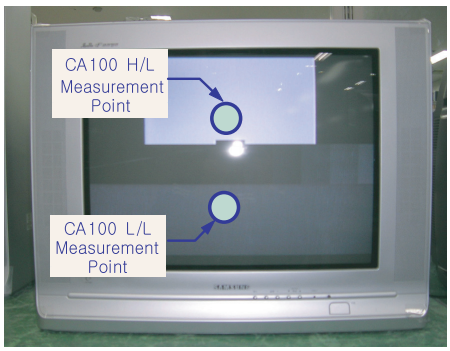


3-6-3 Adjusting the White Balance

1. Select "Power Off → Mute → 1 → 8 → 2 → Power On" to enter Service Mode.

2. Initialize all settings to the values appropriate to the corresponding model.

3. Display the Toshiba pattern and adjust the White Balance using CA100 with the coordinates of the corresponding model.



[CA100]

4. Enter Video Adjust1 of Service Mode. Adjust Low/Light.
   - Adjust Sub Bright to set Y.
   - Adjust B Cutoff to set y.
   - Adjust R Cutoff to set x.

5. Enter Video Adjust1 of Service Mode. Adjust High/Light.
   - Adjust Sub Contrast to set Y.
   - Adjust B Drive to set y.
   - Adjust R Drive to set x.

6. Check Low/Light and readjust it if its value has been changed.

7. If you have readjusted Low/Light, readjust High/Light until the two values are identical to the coordinates of the corresponding model.

※ White Balance Standard Data

No	Item	Model				Required Adjustment
		CL21M21EQ2XXAX CL21T21EQ2	CL21M21MQ2 CL21M2MQ2	CL21M21MQ2XXAZ	CL21M6MQ2X/XAZ	
1	White Balance	275/275/50ft 265/265/2.5ft	275/275/50ft 265/265/2.5ft	275/275/47ft 265/265/2.3ft	275/275/47ft 265/265/2.3ft	White Balance (Standard Data)

3-6-4 Check List for the Screen Voltage and White Balance Adjustment

1. The Screen Voltage and White Balance are connected each other, and both of them have to be configured to the correct values.

2. Adjust the White Balance after the Screen Voltage was adjusted, and check if the Screen Voltage is normal after adjusting the White Balance.

3. If the White Balance is readjusted, check the Screen Voltage again.

4. When the adjustment is finished, check the following checklist.
   - If there is a spot on the screen when turning the TV set off/on, adjust the Screen Voltage again.
   - If there is a ghost line on the screen, adjust the Screen Voltage again.

2. Product Specification

2-1 Product Features

Block	Specfication	Core Parts	Remark
CRT	29" FLAT AK CRT	GREEN CRT	
RF Part	1TUNER F/S TUNER	TDQ-6F/13F2S	
Power	WORLD WIDE INPUT VOLTAGE RANGE STD-BY : 5W UNDER	STR-W6750F	
Video	- MULTI SYSTEM(NT/PAL) - 1H Comb Filter	TDA12005PQ, TDA12015PQ	
Audio	- Output : 5W/10W/15W X2 - BTSC/SAP STEREO : PSEUDO STEREO, TURBO PLUS	TDA12005PQ, TDA12015PQ, TDA7297SA	
Cabinet	- 29" CABINET		
Other	- BASIC MODEL : CL29M21FQ2XXAX - UOC3 with a built-in MSP - TURBO → TURBO PLUS		

■ Core Parts Functions
- TDA12005PQ : Video/Sound Processing and MICOM (NTSC)
- TDA12015PQ : Tri-noma
- STR-W6750F : SMPS Power STR
- TDA7297SA(or 7266) : 5W ~ 15W Sound Output BTL AMP
- 24C16 : 16K EEPROM
- LA78040 : Vertical Deflection AMP
- C5936 : H-OUT S/W TR
- TDA-6F/13F2S : F/S PAL Tuner
- TDA6108AJF : R/G/B Drive AMP IC

2-2 Key Features

Model	CL-29M40MQ
Voltage	AC100-240V
Frequency of Operation	50/60 Hz
Power Consumption	110 Watts
Dimensions (mm)	784 X 503 X 590.5
Weight (Kg/ lbs)	41/90.39

■ Hardware Configuration
- 1 Chip : UOC3 TDA12005PQ(CHROMA, IF+Deflection, MICOM, MSP)
- Tuner : TDA-6F/13F2S
- SOUND AMP : TDA7297SA(ZIP, 15P, -, DUAL, 32dB, PLASTIC, 20V, 30W)
- SMPS Controller : STR-W6750F(6P, TO-3P-F7L)
- Vertical AMP : LA78045(TO220, 7P, 15V)
- Flyback Trans : FOK14B001(11P, 27KV)
- CRT : A51QDX993X(A) (AK, 1H Single Focus)

■ Software Configuration
- MCU : 80C51-controller core
- Data Capture for US Closed Caption
- 0.4883s machine cycle

■ Picture
- Enhance : DNIe Jr.(Digital Natural Image Engine)
- System : NTSC3.58
- Interlaced(60Hz)
- AKB(Auto Kinetic Bais)
- Comb Filter : 1H Comb Filter
- 4:3/Zoom

■ Sound
- BTSC/SAP-STEREO
- Output : 5/10/15W X 2CH
- Auto Stereo, Sound Equalizer, Auto Mute, Auto Volume Limit, PSEUDO STEREO, TURBO PLUS

■ Feature
- Composite (RCA A/V, DVD), S-Video(Y/C)
- Picture Size : Zoom/4:3
- Auto Serch
- Sleep Timer : 180 Min
- Clock Setting
- Blue Screen, Melody On-Off, Picture Mode Select

■ In/Out Terminals
- Rear : 2RCA/DVD/S-VHS
- Front or Side A/V Input(Side A/V Preferability)

■ Remocon
- Universal Interface TM85

■ Power Consumption : 105W

2-3 Specifications Analysis

Model		CL29M21PQ	CL-29M40MQ
Chassis		KS7A	K16A
Design			
Picture	Screen Size	29"	29"
	Pure Flat CRT	○	○
	DNIe Jr.	○	○
	Comb Filter	1H	1H
	Velocity Modulation	×	×
	Video Noise Reduction	○	○
	Auto Kinetic Bias	○	○
	Color Tone Control	○	○
	Tilt Control	×	×
	Picture Mode	4 Mode	4 Mode
Sound	MTS/SAP	○	○
	Output Power(RMS)	15W x 2	15W x 2
	Tweeter	×	×
	BBE	×	×
	Surround	Surround	Surround
	Sound Mode	5 Mode	5 Mode
	Graphic Equalizer	×	×
	Sub-Woofer Speaker	×	×
	Auto Volume Leveler	○	○
	Melody On/Off	○	○
	Turbo Sound	○	○
Convenience	PIP	2T (Optional)	×
	Plug & Play	○	○
	Zoom Mode	○	○
	OSD Demo	○	○
	OSD Language	E/F/S	E/F/S
	Previous Channel	○	○
	Closed Caption	○	○
	On/Off Timer	○	○
	Sleep Timer	○	○
	Auto Power Off	○	○
	Clock	○	○
	Channel Scan	×	×
	Self-diagnostic System	○	○
	Remote Control	TM76	TM75
	Remote Surf	○	○
	Channel Labelling	○	○
	Blue Screen	○	○
	Rack	×	×
Voltage	Voltage	AC100-240V AC120V (Mexico)	AC100-240V
	Stand-by	under 3W	under 5W
Jacks	RF Input	R1	R1
	A/V Input	S1/R2	S1/R2
	Monitor Output	R1	R1
	S-VHS Input	R1	R1
	Headphone	S1	S1
	DVD Input	○	○
	PC Input(VGA)	×	×

2-4 Accessories

Accessories		Item	Item code	Remark
Supplied Accessories		Remote Control Batteries	AA59-00385A 4301-000121	Samsung Service center
		Owner's Instructions	AA68-03859A	
		Warranty Card Safety Guide Manual	- AA68-03242F	
Accessories that can be purchased additionally		Video Cable / Audio Cable	-	Internet shopping mall
		Antenna Cable	-	
		Component Cable	-	

6. Troubleshooting

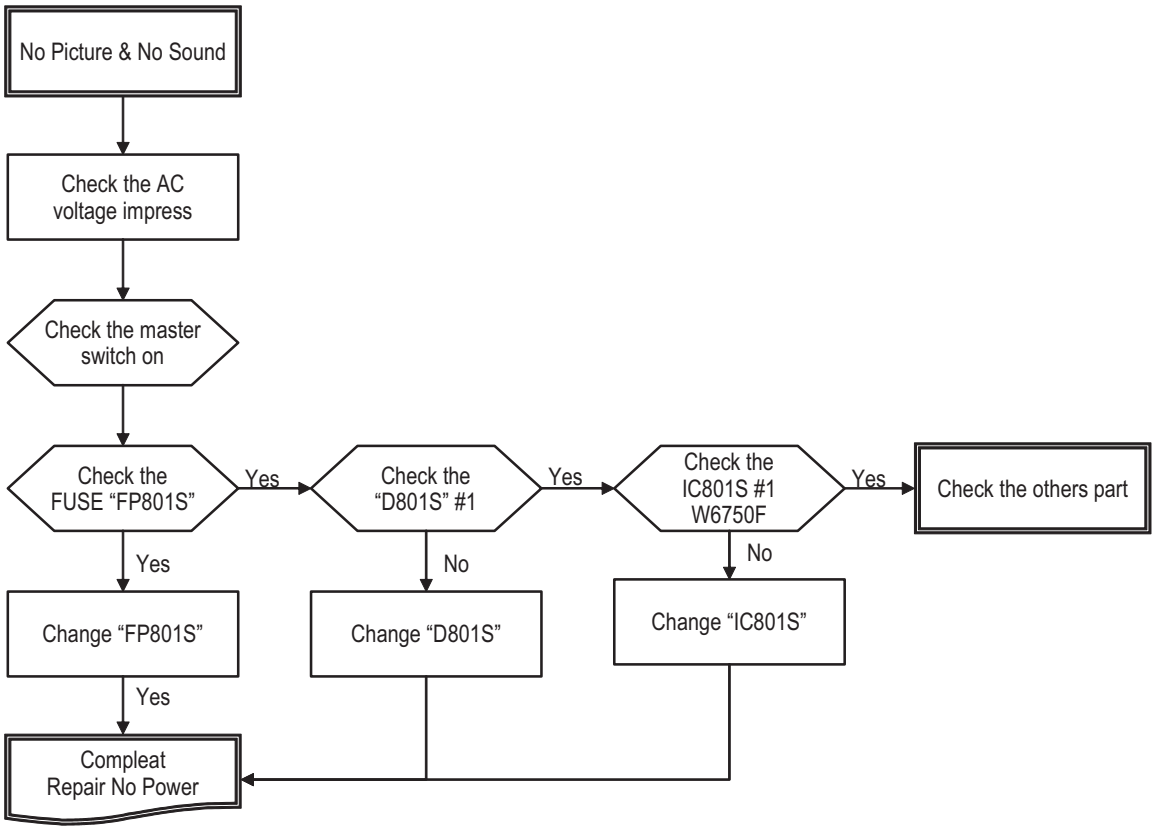
6-1 Checkpoints by Error Mode

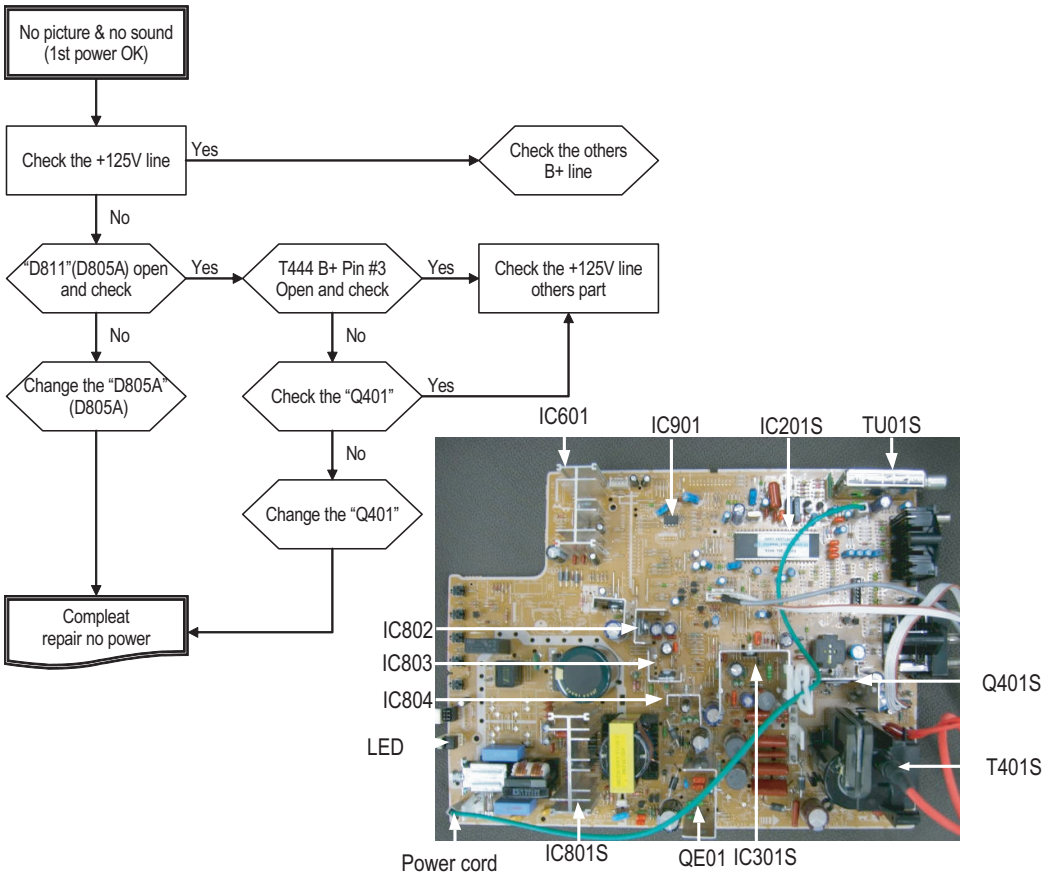
■ Power LED: Check that the LED works when turning the Master Switch ON/OFF

■ LED Indicators: See table 6-2-1 Basic Troubleshooting: LED Diagnosis on the Front Panel.

■ In case of a power failure or abnormal screen, check the following items.
1) Check that the power cord is correctly connected to a 230V wall outlet.
2) Check that the Master Switch has been pressed.
3) Check that the transmitter is turned on.
4) Check that transmitter device selection is set to TV.
5) Check that the signal cable is properly connected.
6) Check that channel setting has been set.

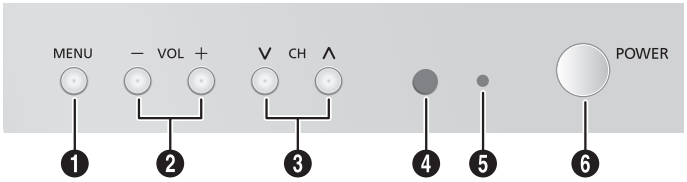
6-1-1 Flow Chart for Malfunction





6-2 Troubleshooting Procedures by Error Modes

6-2-1 Basic Troubleshooting: Diagnosis of LED on the Front Panel



● : Light is On
◑ : Light is Blinking
○ : Light is Off

Power	Description
○	This happens when the Master Switch is not pressed or the power cord is disconnected.
●	This happens when the power cord is connected and the power switch is pressed. If you cannot set the power switch on by pressing it, check the power switch Ass'y.
○→◑→●	If you press the power switch of the transmitter or the channel key on the remote control when in St-BY status, the screen will be turned on. If the LED blinks and the screen is not displayed, check the connection between the Control Assy and the Main Board.

6-2-2 Troubleshooting by the Checksum

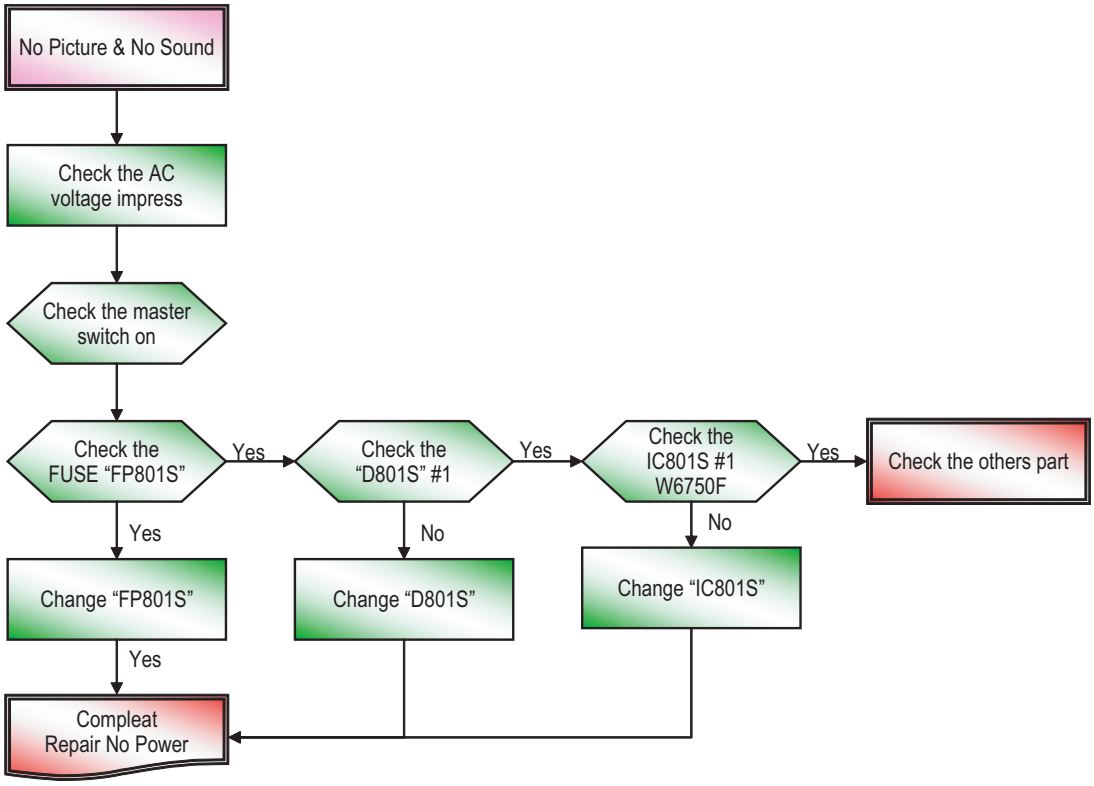
■ Diagnosis of trouble by the checksum is neither reliable nor convenient.
You can only use the checksume of the current direct-view TV to determine whether the software is corrupted or not.
The Checksum value is determined according to the version of the software loaded on the set.
Therefore, you can determine whether the software has been properly downloaded, if you know the correct checksum for that version of the software.

You can check the checksum according in the following order.
Factory Mode → Checksum → Right Button → Calculate Checksum → Output Checksum (e.g. 3036)

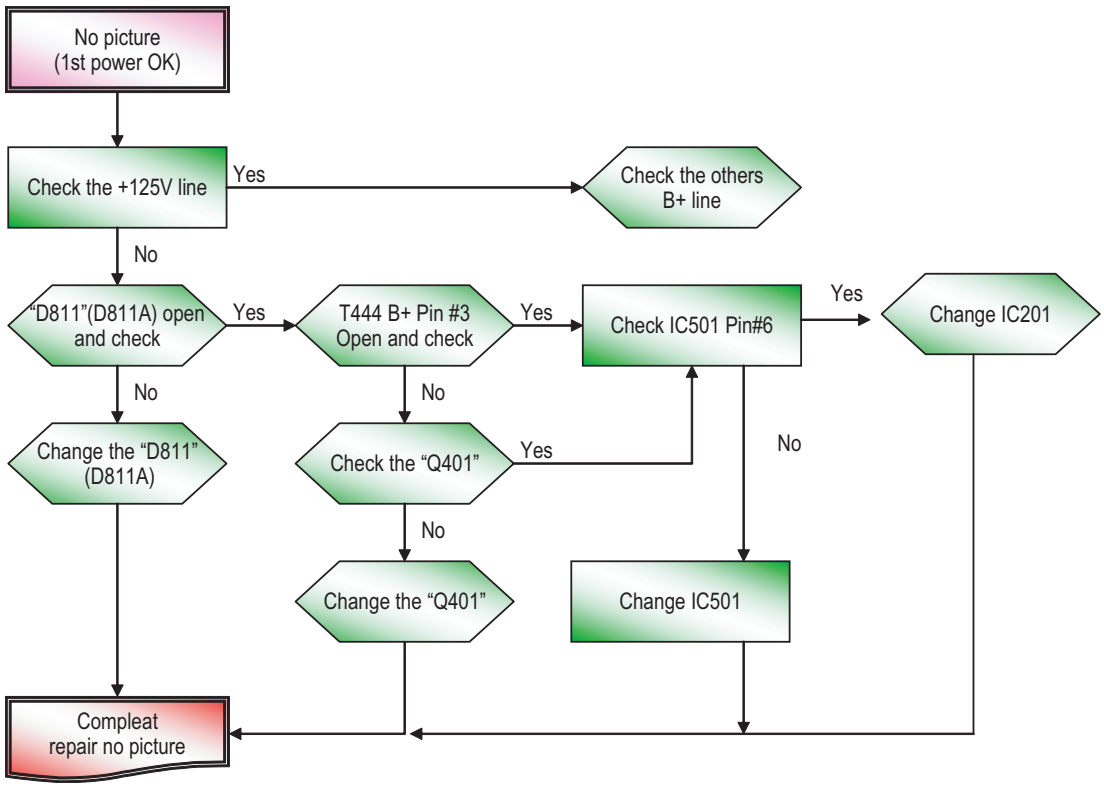
■ Checksum Examples
T-TR2PEU-1000 : checksum = 8036
T-TR2PEU-1010 : checksum = B612

6-3 Troubleshooting Procedures by ASS'Y

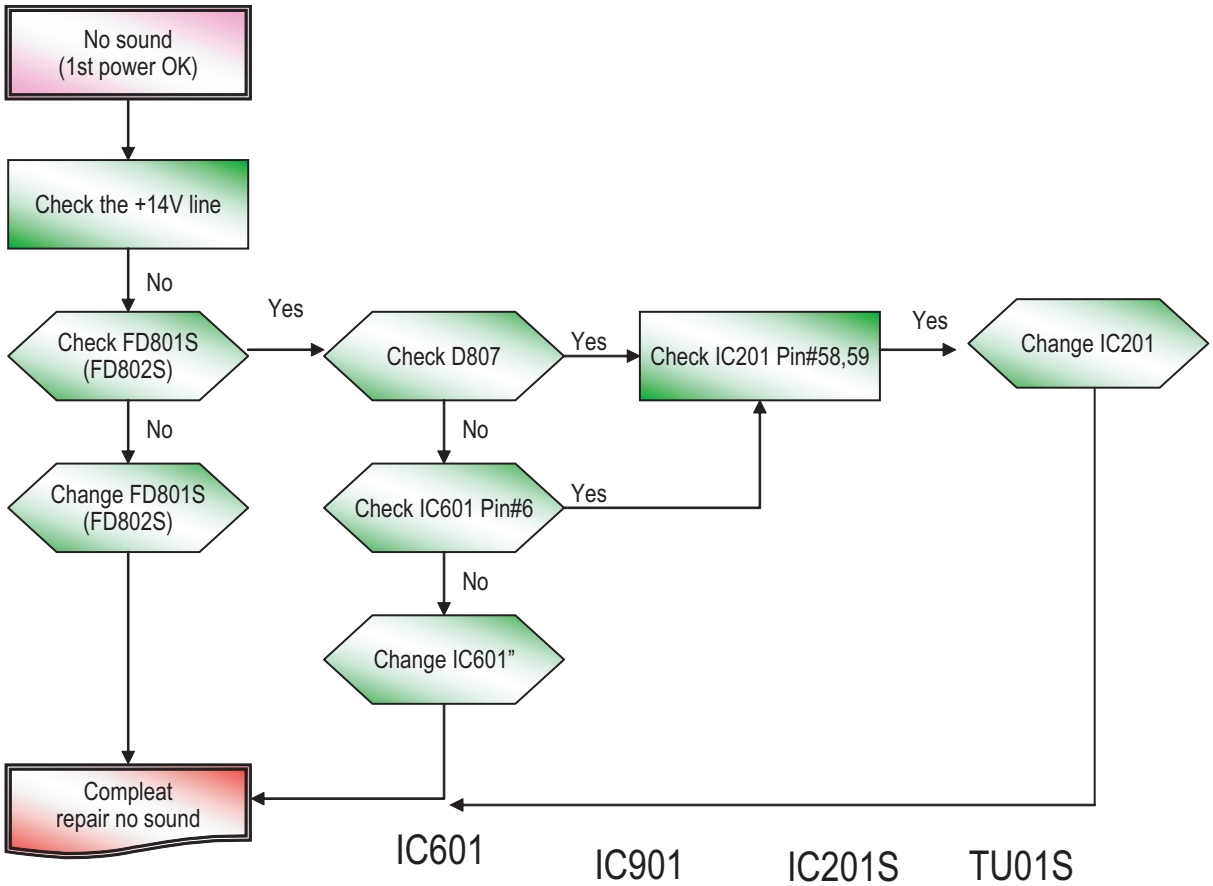
6-3-1 No Power (1st Power)

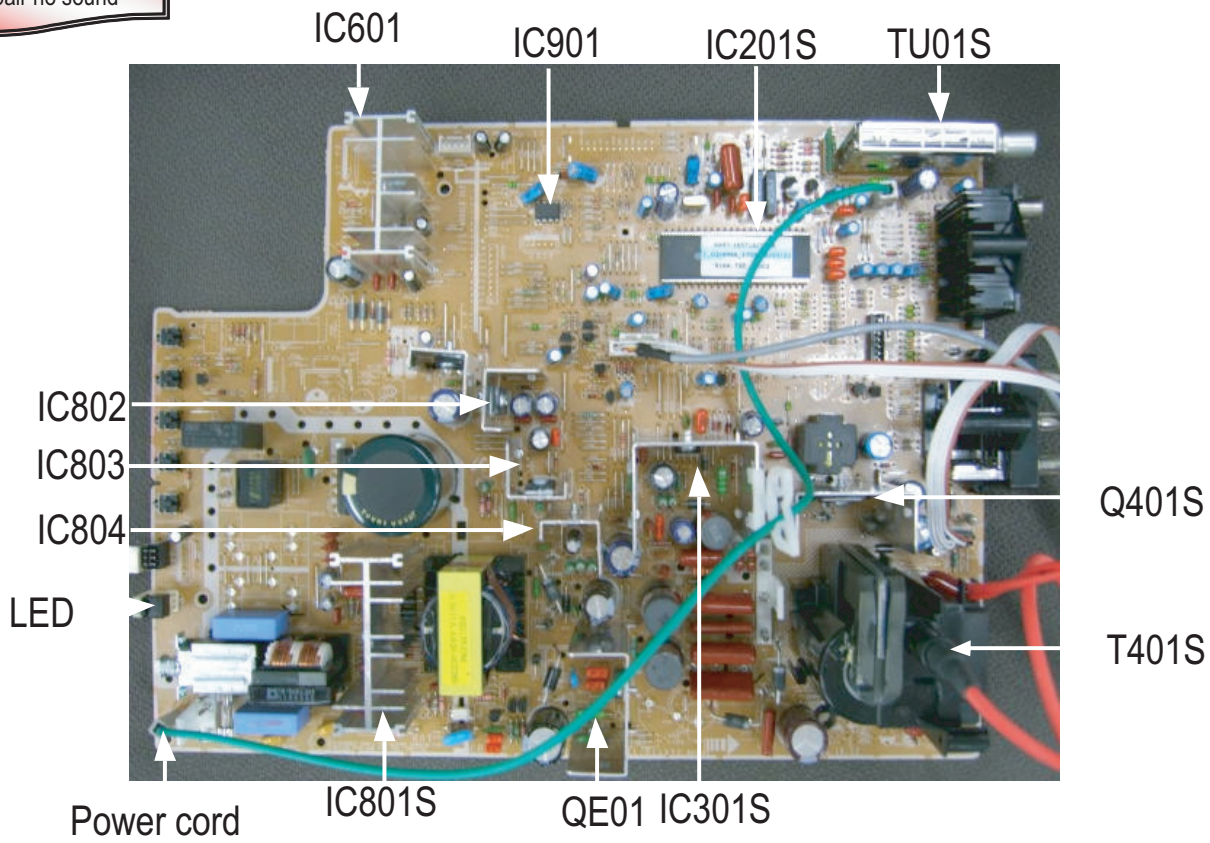


6-3-2 No Picture(2nd Power)



6-3-3 No Sound

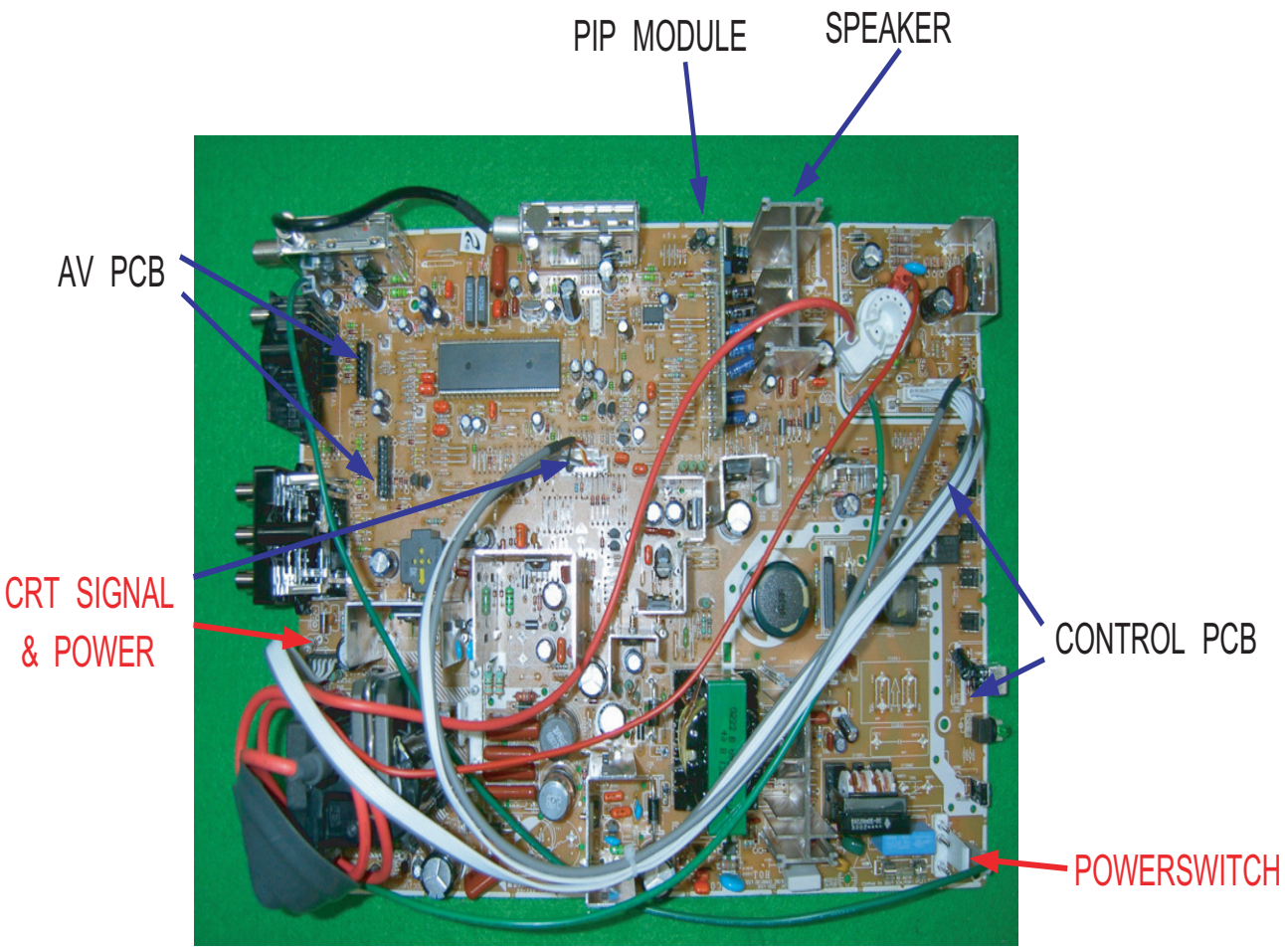

No sound
(1st power OK)
Check the +14V line
No
Yes
Check FD801S
(FD802S)
Check D807
Yes
Check IC201 Pin#58,59
Yes
Change IC201
No
No
Change FD801S
(FD802S)
Check IC601 Pin#6
Yes
No
Change IC601"
Compleat
repair no sound


IC601
IC901
IC201S
TU01S
IC802
IC803
IC804
LED
Q401S
T401S
Power cord
IC801S
QE01
IC301S

MEMO

8. Wiring Diagram

8-1 Overall Wiring



8-2 Pin Connection

CN901	
Pin NO.	Pin Name
1	STD-LED
2	TIME-LED
3	GND
4	VCC
5	I.R

CN902	
Pin NO.	Pin Name
1	KEY-IN2
2	KEY-IN1
3	GND
4	KEY-IN3

CN503	
Pin NO.	Pin Name
1	B-OUT
2	G-OUT
3	R-OUT
4	GND
5	SENSE
6	GND
7	N.C
8	GND
9	GND
10	N.C
11	GND
12	HEATER
13	N.C
14	B+200V

CN601	
Pin NO.	Pin Name
1	R+OUT
2	R-OUT
3	L+OUT
4	L-OUT

FN01	
Pin NO.	Pin Name
1	TILT OUT
2	TILT OUT
3	GND
4	GND

CNP01	
Pin NO.	Pin Name
1	B+ 8V
2	B+ 5V
3	GND
4	SCL
5	SDA
6	GND
7	H- SYNC
8	V- SYNC
9	PIP- F/B
10	PIP- B
11	PIP- G
12	PIP- R

CNP02	
Pin NO.	Pin Name
1	OSD- R
2	OSD- G
3	OSD- B
4	OSD- F/B
5	SUb-CVBS
6	GND
7	PIP-CVBS
8	N.C

PIP MODULE

CNP01 CNP02

CN501A	
Pin NO.	Pin Name
1	GND
2	N.C
3	GND
4	HEATER
5	N.C
6	B+200V

CN900	
Pin NO.	Pin Name
1	SCL
2	GND
3	B+3.3V
4	SDA

TU02S

TU01S

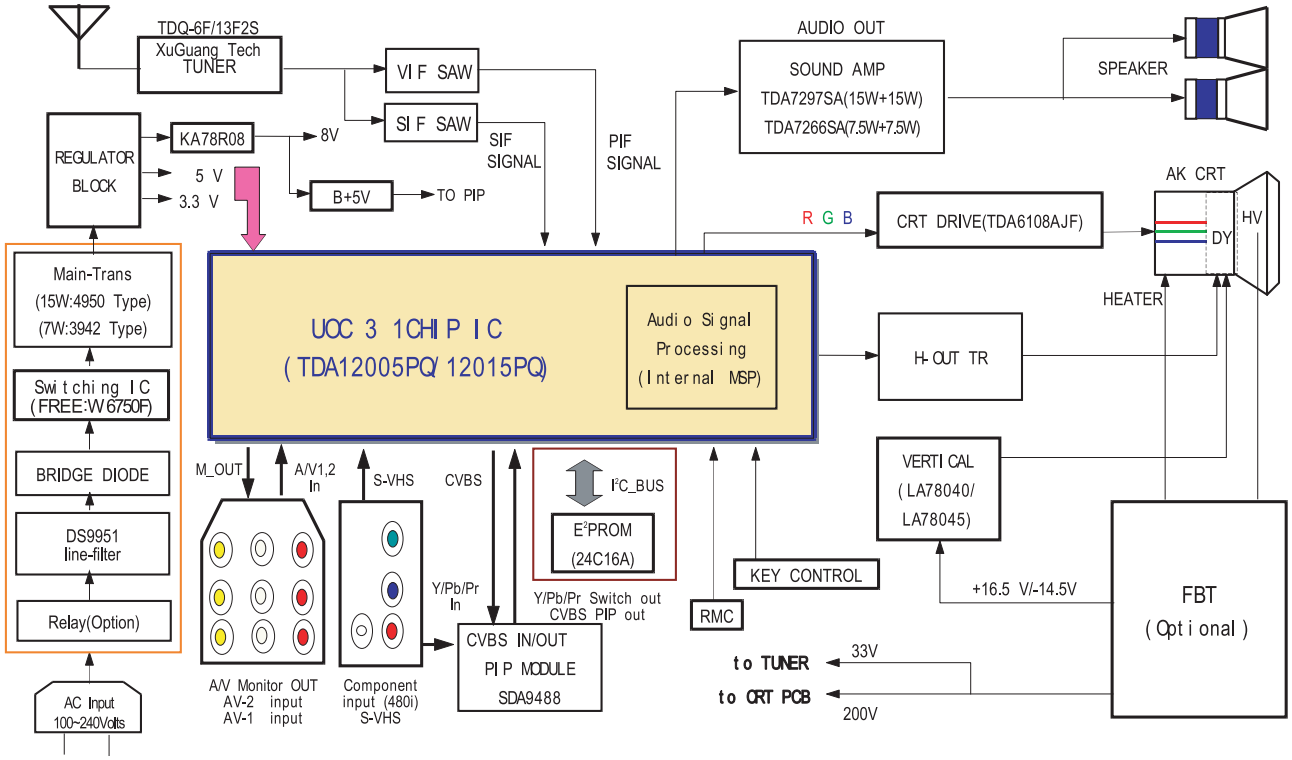
CN502	
Pin NO.	Pin Name
1	B-OUT
2	G-OUT
3	R-OUT
4	GND
5	SENSE
6	GND
7	N.C
8	GND

CN701	
Pin NO.	Pin Name
1	AV2-R-IN
2	AV2-L-IN
3	AV2-L-OUT
4	AV2-R-OUT
5	GND
6	AV2-V-IN
7	GND
8	AV2-V-OUT

CN702	
Pin NO.	Pin Name
1	C-OUT
2	GND
3	Y-OUT
4	GND
5	C-IN
6	GND
7	Y-IN

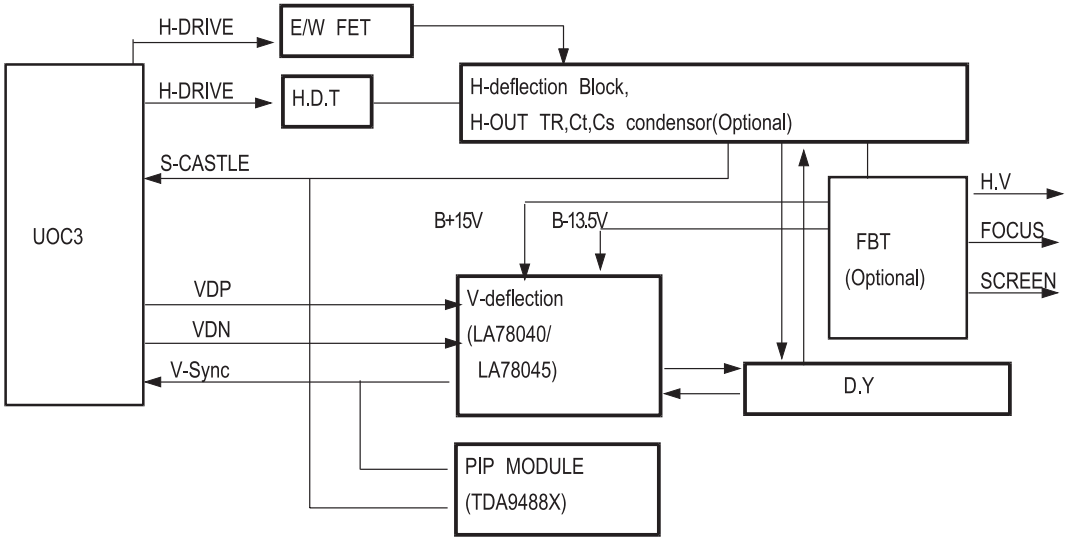
7. Block Diagram

7-1 Overall Block Diagram

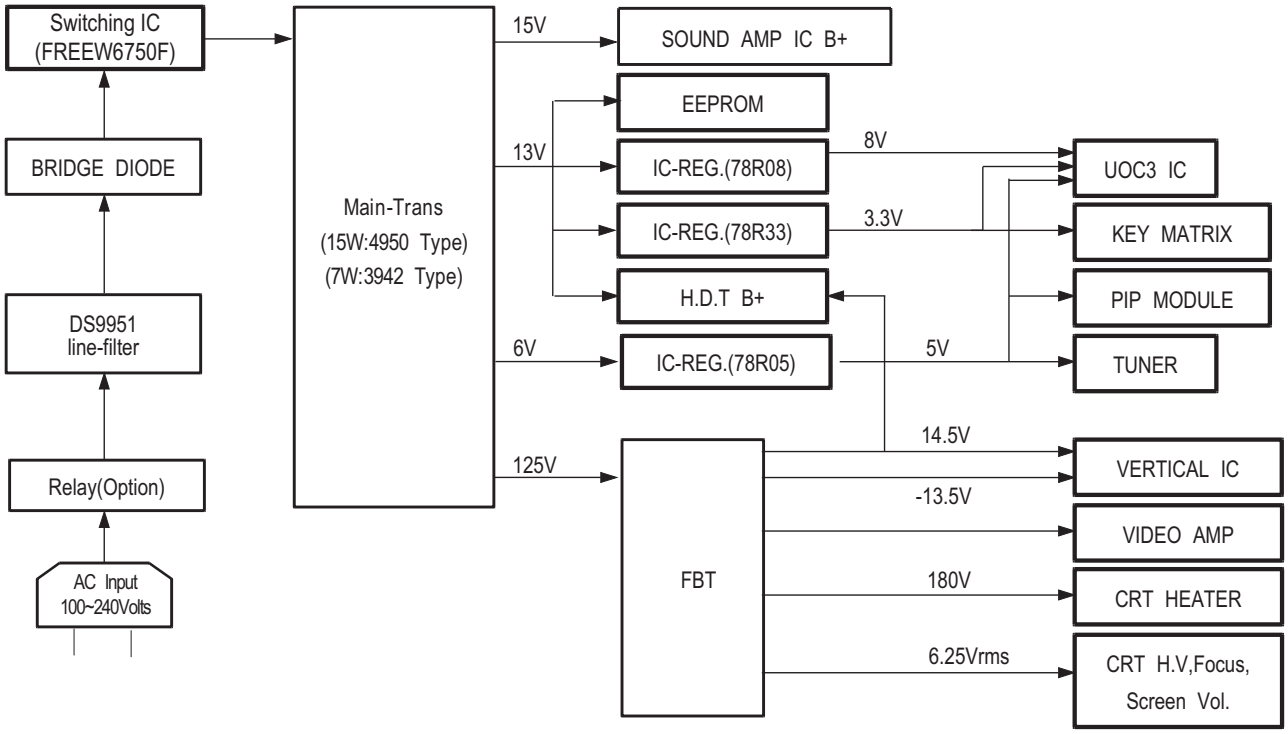


7-2 Partial Block Diagram

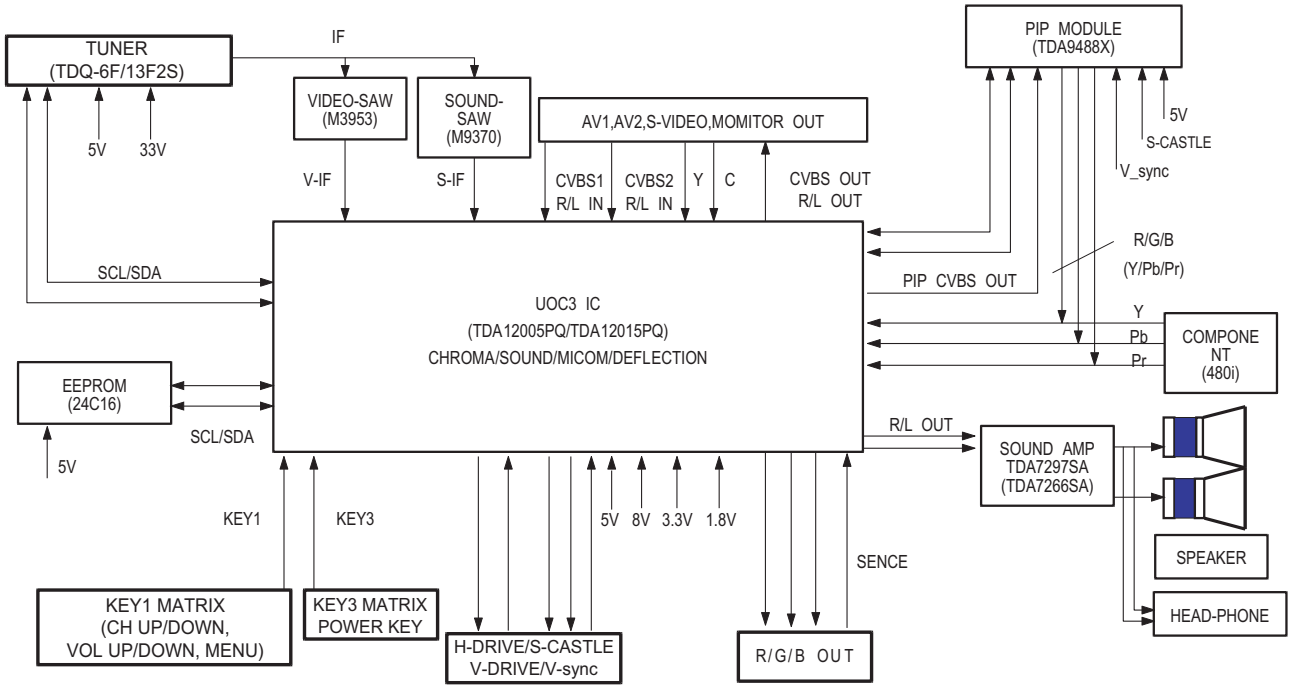
7-2-1 Deflection Block Diagram



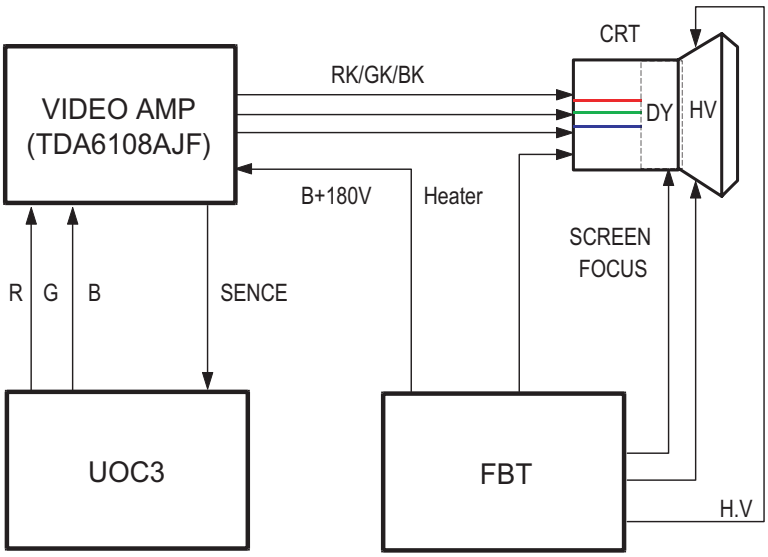
7-2-2 Power Block Diagram



7-2-3 Micom & Tuner Block Diagram



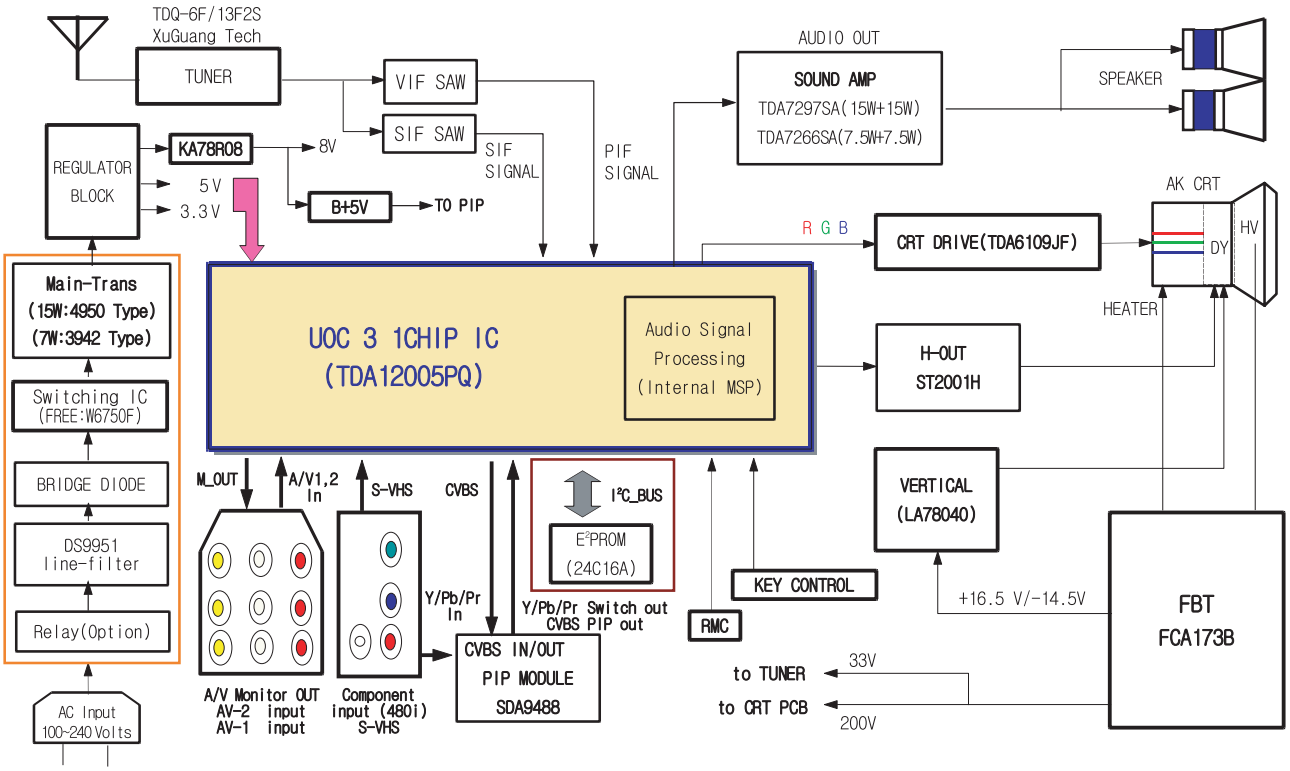
7-2-4 CRT Drive Block Diagram



MEMO

13. Circuit Description

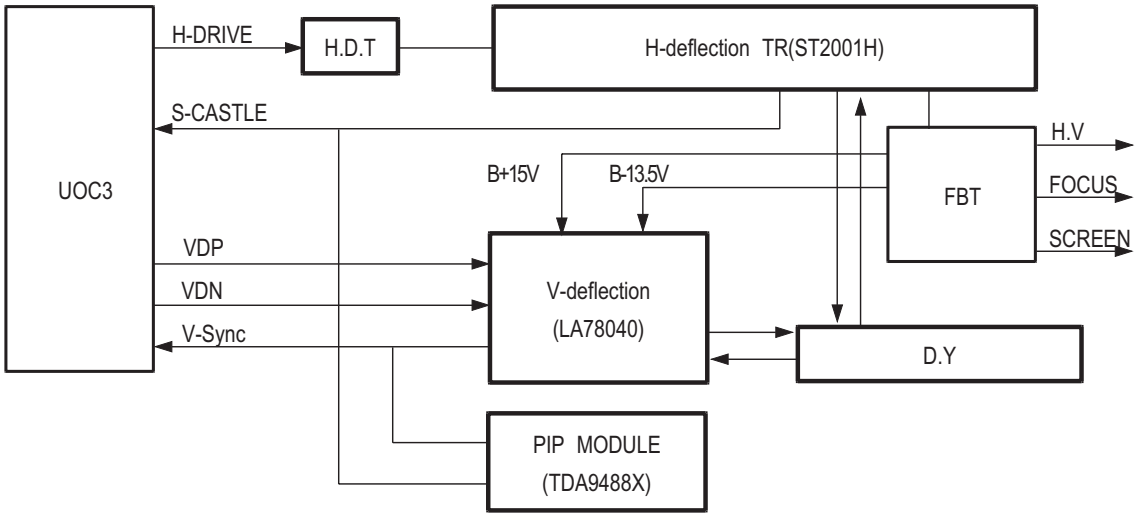
13-1 Overall Block Description



* K16A is a typical analog CRT TV set adapted to New mutiple-function IC (UOC3).
  UOC3 = UOC2 + Sound processor.
* Only IF block is out of UOC3 IC. (Split type)
* K16A have a good picture quality,called DNIe Jr. (Gamma & Dynamic skin tone)

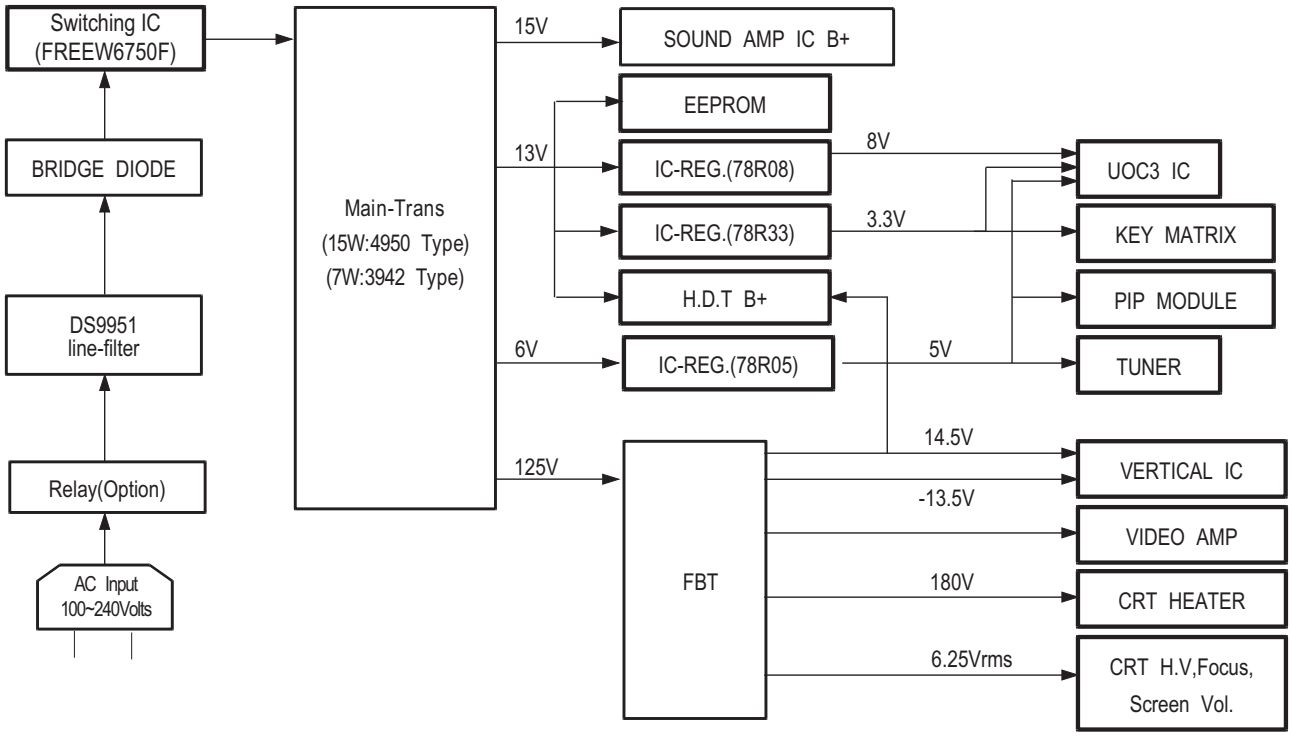
13-2 Partial Block Description

13-2-1 Deflection Block Description



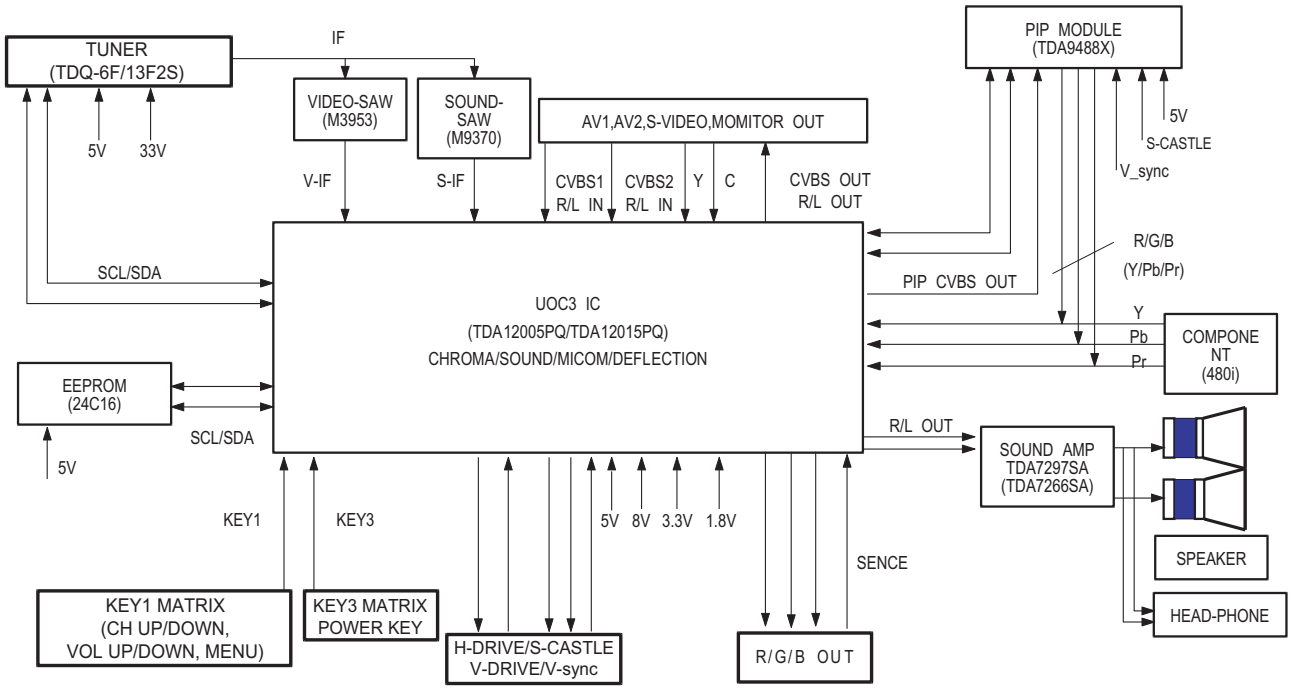
* Deflection of K16A is same to a typical analog TV set.
* K16A line-up is only 21"F model, so it have not E/W and pin-coushion circuit.

13-2-2 Power Block Description



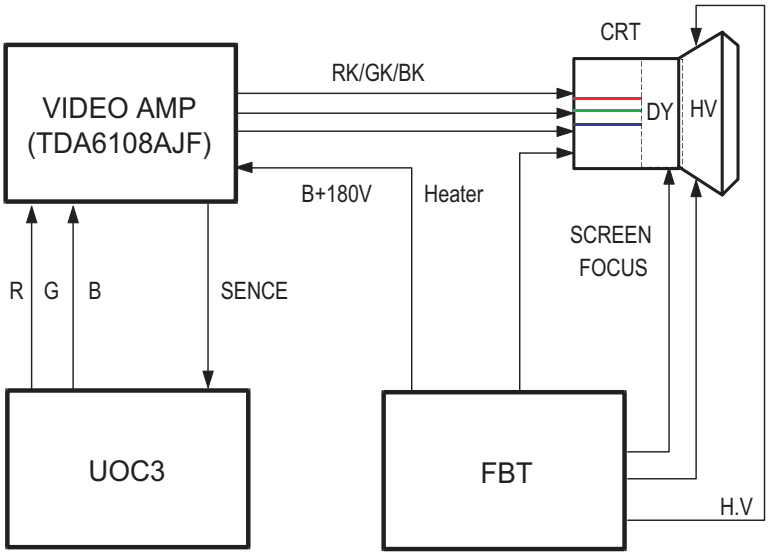
* It is the Power circuit of K16A that emphasize sound output level.(15W,10W) so, we use SANKEN Power IC(STR-6750F).
* Main trans have 2pins for sound B+option.
* We use 2types Sound Amp.
  (TDA7297SA can output over 10W+10W, TDA7266SA can output under 7W+7W)
* UOC IC need variety power supply, so we use 3type IC vol.regulator. (78R33,78R05,78R08)

13-2-3 Micom & Tuner Block Description



* TUNER is non-LNA, F/S tuner for analog NTSC CTV.
* UOC3 IC include Micom, chroma, deflection and sound processor. (with DBX fuction),so IC line-up is simple.
* PIP, Component(480i) are switched at the PIP module, so it can't display sub-picture at the Component mode.

13-2-4 CRT Block Description



* R,G,B output from UOC3 IC is small, so we need high-output video amp(TDA6108AJF).

MEMO

5. Electrical Part List

5-1 CL29M40MQ2XXAX

You can search for the updated part code through ITSELF web site.
URL:http://itself.sec.samsung.co.kr

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
		ASSY CHASSIS				
M0017	AA91-10472E	ASSY CHASSIS	CL29M40MQ2XXAX	1	S.N.A	
M0014	AA94-16007C	ASSY PCB MAIN	CL29M40MQ2XXAX	1		
C101	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C102	2401-003578	C-AL	1000uF,20%,10V,GP,TP,8x20mm,5	1		
C103	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C104	2401-000302	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1		
C105	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1		
C106	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C109	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C110	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C125	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C130	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm	1		
C131	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm	1		
C132	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm	1		
C133	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1		
C137	2401-000660	C-AL	2.2uF,20%,50V,GP,TP,5x11,5	1		
C139	2401-000660	C-AL	2.2uF,20%,50V,GP,TP,5x11,5	1		
C140	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1		
C143	2202-000222	C-CERAMIC,MLC-AXIAL	3.3nF,20%,16V,Y5P,TP	1		
C144	2202-000127	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,25V,Y5V	1		
C145	2306-000134	C-FILM,LEAD-PPF	150nF,5%,400V,TP,19x17x1	1		
C146	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11,5	1		
C147	2202-000807	C-CERAMIC,MLC-AXIAL	22nF,+80-20%,25V,Y5V	1		
C148	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1		
C202	2401-003517	C-AL	22uF,20%,50V,LZ,TP,5x11mm,5	1		
C204	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C205	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C206	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	1		
C218	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	1		
C219	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C301	2301-000342	C-FILM,LEAD-PEF	2.2nF,5%,50V,TP,7.4x3.9x	1		
C302	2201-000192	C-CERAMIC,DISC	0.01nF,0.25pF,500V,C0G,-,	1		
C304	2401-000365	C-AL	100uF,20%,50V,WT,TP,10x12.5mm,	1		
C305	2305-000285	C-FILM,LEAD-PEF	220NF,5%,100V,TP,10.5X5.	1		
C306	2201-000003	C-CERAMIC,DISC	0.068NF,10%,2KV,SL,TP,7X5	1		
C312	2202-000796	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,TP,3	1		
C313	2202-000796	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,TP,3	1		
C401	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1		
C402	2401-000302	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1		
C403	2201-000599	C-CERAMIC,DISC	0.56NF,10%,500V,Y5P,TP,5.	1		
C404	2305-000382	C-FILM,LEAD-PEF	4.7nF,5%,400V,TP,-,5mm	1		
C405	2301-001338	C-FILM,LEAD-OTHER	0.68NF,5%,1.6KV,BK,28X	1		
C407	2401-002268	C-AL	2.2uF,20%,250V,LZ,TP,8X11,5	1		
C408	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1		
C409	2401-001397	C-AL	470uF,20%,25V,GP,TP,10x16,5	1		
C410	2401-002288	C-AL	470uF,20%,25V,WT,TP,10x20,5	1		
C411	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1		
C412	2401-001527	C-AL	47uF,20%,250V,HR,TP,13x25mm,5m	1		
C413	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1		
C414	2301-001083	C-FILM,LEAD-PPF	27nF,5%,400V,TP,20x7.5x1	1		
C417	2202-000796	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,TP,3	1		
C419	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1		
C424	2201-000132	C-CERAMIC,DISC	0.1NF,10%,500V,Y5P,TP,6.5	1		
C498	2305-000237	C-FILM,LEAD-PEF	1uF,5%,63V,TP,7.5x15.5mm	1		
C501	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
C502	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
C503	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
C504	2301-001259	C-FILM,LEAD-PPF	100nF,5%,400V,TP,19x8x16	1		
C505	2202-000825	C-CERAMIC,MLC-AXIAL	680pF,10%,50V,Y5P,TP	1		
C506	2401-000430	C-AL	10uF,20%,250V,GP,TP,10x16mm,5m	1		
C507	2401-000430	C-AL	10uF,20%,250V,GP,TP,10x16mm,5m	1		
C508	2201-000723	C-CERAMIC,DISC	4.7NF,20%,3KV,Y5U,TP,16X5	1		
C509	2201-002147	C-CERAMIC,DISC	2.7NF,10%,500V,Y5P,TP,10X	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C510	2201-002147	C-CERAMIC,DISC	2.7NF,10%,500V,Y5P,TP,10X	1		
C511	2401-000553	C-AL	1uF,10%,50V,GP,TP,5x11,5	1		
C601	2401-001914	C-AL	1uF,20%,50V,BP,TP,5x11,5	1		
C602	2401-001914	C-AL	1uF,20%,50V,BP,TP,5x11,5	1		
C607	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C608	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C610	2301-000289	C-FILM,LEAD-PEF	5.6nF,5%,50V,TP,7x6x3mm,	1		
C611	2301-000289	C-FILM,LEAD-PEF	5.6nF,5%,50V,TP,7x6x3mm,	1		
C612	2401-001914	C-AL	1uF,20%,50V,BP,TP,5x11,5	1		
C613	2401-001914	C-AL	1uF,20%,50V,BP,TP,5x11,5	1		
C620	2305-000665	C-FILM,LEAD-PEF	100nF,5%,63V,TP,7.5x4.0x	1		
C621	2401-003139	C-AL	1000uF,20%,25V,WT,TP,10*20,5mm	1		
C627	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C629	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C638	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C642	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C643	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C644	2202-000231	C-CERAMIC,MLC-AXIAL	0.33NF,10%,50V,Y5P,T	1		
C701	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1		
C702	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1		
C703	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1		
C704	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1		
C705	2202-000243	C-CERAMIC,MLC-AXIAL	33pF,5%,50V,SL,TP,3.	1		
C713	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1		
C715	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1		
C717	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1		
C719	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1		
C721	2401-000660	C-AL	2.2uF,20%,50V,GP,TP,5x11,5	1		
C722	2401-000660	C-AL	2.2uF,20%,50V,GP,TP,5x11,5	1		
C723	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C724	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C725	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C801	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1		
C803	2401-002251	C-AL	470uF,20%,200V,GP,BK,25x40mm,1	1		
C807	2301-001342	C-FILM,LEAD-PPF	1.5nF,5%,800V,TP,15x6.5x	1		
C808	2401-003046	C-AL	47uF,20%,50V,WT,TP,6.3x11,2.5	1		
C809	2301-000111	C-FILM,LEAD-PEF	1.8nF,5%,50V,TP,6.5x3.0x	1		
C810	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1		
C811	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1		
C812	2401-002075	C-AL	4.7uF,20%,50V,GP,TP,5x11,5	1		
C815	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	1		
C817	2401-000703	C-AL	2200uF,20%,25V,GP,-,12.5x25mm,	1		
C818	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1		
C819	2401-003141	C-AL	2200uF,20%,25V,WT,TP,13x25,5mm	1		
C820	2201-000406	C-CERAMIC,DISC	0.27NF,10%,2KV,Y5P,TP,6.3	1		
C821	2401-000262	C-AL	100uF,20%,160V,HR,TP,16x25,7.5	1		
C822	2401-000262	C-AL	100uF,20%,160V,HR,TP,16x25,7.5	1		
C823	2201-000291	C-CERAMIC,DISC	1NF,10%,500V,Y5P,TP,7.5X3	1		
C824	2305-000289	C-FILM,LEAD-PEF	220nF,5%,63V,TP,-,5mm	1		
C825	2401-003224	C-AL	470uF,20%,16V,WT,TP,8X11.5,5mm	1		
C826	2401-000302	C-AL	100uF,20%,25V,GP,TP,6.3x11,5	1		
C828	2201-000374	C-CERAMIC,DISC	0.22NF,5%,50V,C0G,TP,10.5	1		
C830	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm	1		
C843	2301-000192	C-FILM,LEAD-PEF	1nF,5%,50V,TP,5.3x10mm,5	1		
C844	2301-000356	C-FILM,LEAD-PEF	47nF,5%,50V,TP,7.5x4.0x6	1		
C845	2201-000599	C-CERAMIC,DISC	0.56NF,10%,500V,Y5P,TP,5.	1		
C846	2401-000698	C-AL	2200uF,20%,16V,WT,TP,12.5x25,5	1		
C888	2201-000556	C-CERAMIC,DISC	0.47NF,10%,500V,Y5P,TP,5.	1		
C901	2401-002144	C-AL	47uF,20%,16V,GP,TP,5x11,5	1		
C902	2202-000796	C-CERAMIC,MLC-AXIAL	1NF,10%,50V,Y5P,TP,3	1		
C903	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C904	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C905	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	1		
C906	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	1		
C907	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C908	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C909	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C910	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C911	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C912	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C913	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C914	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C915	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C916	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C917	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C918	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C919	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
C920	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C921	2401-003578	C-AL	1000uF,20%,10V,GP,TP,8x20mm,5	1		
C922	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C924	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C925	2401-000050	C-AL	10uF,20%,16V,GP,TP,5x11,2.5	1		
C926	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
C927	2401-003036	C-AL	100uF,20%,16V,GP,TP,5X11mm,5mm	1		
C928	2301-000383	C-FILM,LEAD-PEF	10nF,5%,50V,TP,6x7x3.2mm	1		
C929	2301-000301	C-FILM,LEAD-PEF	6.8nF,5%,50V,TP,6.5X5.5X	1		
C930	2401-000553	C-AL	1uF,10%,50V,GP,TP,5x11,5	1		
C931	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	1		
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.1	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS1	0205-001154	OIL-SILICON	G746,-,-	0.2	S.N.A	
CIS3	AA40-00016A	TUNER	TDQ-6F/13F2S,NTSC,181CH,45.75MHZ,7	1		
CN330	3711-001084	HEADER-BOARD TO CABLE	BOX,8P,1R,2.5MM,ST	1		
CN330	3711-003043	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5MM,ST	1		
CN330	3711-003241	HEADER-BOARD TO CABLE	BOX,14P,1R,2.5MM,S	1		
CN330	3711-002643	HEADER-BOARD TO CABLE	BOX,4P,1R,2.5mm,ST	1		
CN330	3711-002645	HEADER-BOARD TO CABLE	BOX,6P,1R,2.5mm,ST	1		
CN330	3711-002647	HEADER-BOARD TO CABLE	BOX,8P,1R,2.5mm,ST	1		
CN909	AA37-00001A	CONNECTOR-FBT FIX PIN	JM-3500,CPTTV,0.36	1		
CP01	2201-000146	C-CERAMIC,DISC	0.1NF,5%,50V,SL,TP,5X3.5M	1		
⚠ CR402S	2306-000329	C-FILM,LEAD-PPF	7NF,3%,1.6KV,BK,28.5X18.	1		
⚠ CR403S	2301-001456	C-FILM,LEAD-OTHER	5.1NF,5%,1.6KV,BK,29X9	1		
⚠ CR404S	2303-000296	C-FILM,LEAD-PPF	18nF,5%,630V,BK,20x16x9.	1		
⚠ CR406S	2306-000195	C-FILM,LEAD-PPF	360nF,5%,400V,BK,26x19x1	1		
CV113	2202-000127	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,25V,Y5V	1		
CV114	2202-000127	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,25V,Y5V	1		
⚠ CX801S	2306-000318	C-FILM,LEAD-PPF	220nF,20%,275V,BK,26x7x1	1		
⚠ CY802S	2201-000446	C-CERAMIC,DISC	3.3NF,20%,400V,Y5U,BK,15X	1		
D101	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D201	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D303	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1A,DO-41,TP	1		
D305	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D401	0402-000537	DIODE-RECTIFIER	RH1A,600V,0.6A,DO-204AC,	1		
D402	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1		
D403	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1		
D404	0402-001599	DIODE-RECTIFIER	DGP30L,1500,3A,DO-201AD(	1		
D405	0402-000534	DIODE-RECTIFIER	RG10V,400V,1.2A,DO-201,T	1		
D406	0402-000540	DIODE-RECTIFIER	RU20A,600V,1.5A,-,TP	1		
D407	0402-000540	DIODE-RECTIFIER	RU20A,600V,1.5A,-,TP	1		
D408	0402-001295	DIODE-RECTIFIER	GUR460L-5700,600V,4A,DO-	1		
D409	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D501	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1		
D502	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1		
D503	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1		
D504	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1A,DO-41,TP	1		
D510	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D511	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D512	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D513	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D606	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D630	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
D631	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
⚠ D801S	0402-001477	DIODE-BRIDGE	GSIB460,600V,4A,SIP-4,ST	1		
D803	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1A,DO-41,TP	1		
D804	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1		
D805	0401-000006	DIODE-SWITCHING	BAV21,250V,200mA,DO-35,T	1		
D807	0402-001604	DIODE-RECTIFIER	MUR420,200V,4A,DO-201AD,	1		
D808	0402-000132	DIODE-RECTIFIER	1N4004,400V,1A,DO-41,TP	1		
D809A	AA96-00243D	ASSY HEAT SINK P	D06U20S,AA62-00045B,BRI	1	S.N.A	
D811	0402-001603	DIODE-RECTIFIER	MUR480E,800V,4A,DO-201AD	1		
D813	0402-000493	DIODE-RECTIFIER	1R5GU41,400V,1.5A,DO-15L	1		
DZ242	0403-001318	DIODE-ZENER	MTZJ4.3B,4.17-4.43V,500mW,DO	1		
DZ301	0403-001329	DIODE-ZENER	MTZJ24B,22.75-23.73V,500mW,D	1		
DZ302	0403-001329	DIODE-ZENER	MTZJ24B,22.75-23.73V,500mW,D	1		
DZ303	0403-001221	DIODE-ZENER	UZ39BSB,35.36-37.19V,500mW,D	1		
DZ305	0403-001329	DIODE-ZENER	MTZJ24B,22.75-23.73V,500mW,D	1		
DZ306	0403-000700	DIODE-ZENER	TZP33A,5%,1000mW,DO-41,TP	1		
DZ403	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
DZ501	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
DZ502	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ503	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ510	0403-000716	DIODE-ZENER	MTZJ4.7B,4.59-4.77V,500mW,DO	1		
DZ605	0403-000714	DIODE-ZENER	MTZJ3.3B,3.32-3.53V,500mW,DO	1		
DZ701	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ702	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ703	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ704	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ705	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ707	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ708	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ712	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ713	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ714	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ802	0403-000717	DIODE-ZENER	MTZJ5.1B,4.94-5.2V,500mW,DO-	1		
DZ804	0403-000508	DIODE-ZENER	MTZJ5.6B,5.45-5.73V,500mW,DO	1		
DZ807	0403-000718	DIODE-ZENER	MTZJ6.8B,6.52-6.79V,500mW,DO	1		
DZ810	0403-000508	DIODE-ZENER	MTZJ5.6B,5.45-5.73V,500mW,DO	1		
DZ811	0403-000700	DIODE-ZENER	TZP33A,5%,1000mW,DO-41,TP	1		
DZ812	0403-000700	DIODE-ZENER	TZP33A,5%,1000mW,DO-41,TP	1		
DZ813	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ814	0403-001320	DIODE-ZENER	MTZJ6.2C,6.16-6.4V,500mW,DO-	1		
DZ815	0403-001321	DIODE-ZENER	MTZJ6.8C,6.7-6.97V,500mW,DO-	1		
DZ816	0401-000005	DIODE-SWITCHING	1N4148,75V,150mA,DO-35,T	1		
DZ818	0403-000720	DIODE-ZENER	MTZJ9.1B,8.57-9.01V,500mW,DO	1		
DZ819	0403-000714	DIODE-ZENER	MTZJ3.3B,3.32-3.53V,500mW,DO	1		
DZ901	0403-000719	DIODE-ZENER	MTZJ7.5B,7.11-7.44V,500mW,DO	1		
DZ902	0403-000719	DIODE-ZENER	MTZJ7.5B,7.11-7.44V,500mW,DO	1		
DZ903	0403-000508	DIODE-ZENER	MTZJ5.6B,5.45-5.73V,500mW,DO	1		
DZ904	0403-000508	DIODE-ZENER	MTZJ5.6B,5.45-5.73V,500mW,DO	1		
DZ905	0403-001317	DIODE-ZENER	MTZJ3.0B,3.01-3.22V,500mW,DO	1		
EL501	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL502	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL800	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL801	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL803	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL804	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL805	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL806	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL807	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL808	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EL809	6042-000001	EYELET	ID2.2,OD2.7,L3.1,NI+SN,BSP3-1/2H	1	S.N.A	
EY422	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY600	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY601	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY602	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY603	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY800	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY801	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY802	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY803	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY804	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY820	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY821	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY823	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY825	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY826	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY827	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY828	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY829	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY831	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY832	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY833	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY834	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY835	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY836	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY837	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY838	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY839	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY840	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY841	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY842	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY843	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY844	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY845	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY846	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY847	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
EY848	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY849	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY850	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY851	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY852	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY853	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY854	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY855	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY856	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY857	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY858	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY859	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY860	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY861	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY862	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY863	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY864	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY865	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY866	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY867	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY868	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY869	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY870	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY871	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY872	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY873	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY874	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY875	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY876	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY877	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY878	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY879	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY880	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY881	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY882	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY883	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY887	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY890	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY893	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY898	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY899	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY982	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
EY983	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	1		
F101	2901-000297	FILTER-EMI ON BOARD	-,3A,-,3.5x5mm,TP,-	1		
F101	2901-000297	FILTER-EMI ON BOARD	-,3A,-,3.5x5mm,TP,-	1		
F101	2901-000297	FILTER-EMI ON BOARD	-,3A,-,3.5x5mm,TP,-	1		
F101	2901-000299	FILTER-EMI ON BOARD	-,6A,UL/CSA,-,9x7.5,	1		
F801A	3602-000114	FUSE-HOLDER	-,-,30mohm	1		
F801B	3602-000114	FUSE-HOLDER	-,-,30mohm	1		
FD801A	3601-001228	FUSE-AXIAL LEAD	125V,10A,FAST-ACTING,EPO	1		
FD802	3601-000281	FUSE-CARTRIDGE	250V,4A,TIME-LAG,GLASS,5.	1		
⚠ FD802S	3601-001163	FUSE-AXIAL LEAD	125V,7A,-,EPOXY,2.4X7.1M	1		
GT101	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT102	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT103	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT104	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT301	AA60-40012F	PIN-GT	4P,2.36PI,6/12/14mm,NYLON66,LOCKI	1	S.N.A	
GT404	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT501	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT502	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT503	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT504	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT801	AA60-40012G	PIN-GT	3P,2.36PI,10/5mm,NYLON66,LOCKING	1	S.N.A	
GT804	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT805	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
GT806	BH71-40300A	PIN-HINGE	BRASS,D2.36!,HEAT/SINK,SN	1	S.N.A	
H/S	0502-001263	TR-POWER	FJAF6810A,NPN,60000MW,TP-3PF(FO	1		
H/S	AA61-01390A	BRACKET	CT-29A20HR,SECC,T1.0	1	S.N.A	
IC012	1203-001217	IC-POSI.ADJUST REG.	431,TO-92,3P,4.58MIL	1		
IC063	AA13-00116A	IC HYBRID	STR-W6750F,6,-20 to +115,TO-3P	1		
IC112	1103-001211	IC-EEPROM	24C16,2Kx8Bit,DIP,8P,10.16x7.1	1		
IC201	AA09-00508A	IC MICOM MTP	TDA12005PQ/N1FCO-MTP,CL21M2	1	S.N.A	
IC301	AA96-00623F	ASSY HEAT SINK P	LA78045,SCREW,AA62-0005	1	S.N.A	
IC501	AA96-50311P	ASSY HEAT SINK P	AA62-30175D,TDA6108AJF,	1	S.N.A	
IC601	BP96-00418B	ASSY HEAT SINK P	AA62-30182F,SCREW,TDA72	1	S.N.A	
⚠ IC801S	AA96-50373P	ASSY HEAT SINK P	AA62-30181V,STR-W6750F,	1	S.N.A	
IC802	AA96-00243Q	ASSY HEAT SINK P	SCREW,AA62-00045A,1203-	1	S.N.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
IC803	AA96-00243R	ASSY HEAT SINK P	AA62-00045A,KA78R08,TVD	1	S.N.A	
JA333	3722-001333	JACK-PIN	9P,NI,BLK,ANGLE	1		
JA333	3722-001423	JACK-PIN	3P+S1P,NI,BLK,ANGLE	1		
JP104	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
JP105	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8x3.2mm	1		
L101	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
L102	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L103	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L107	2701-000159	INDUCTOR-AXIAL	22UH,10%,4298	1		
L108	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
L201	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L202	2001-000793	R-CARBON	47OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
L204	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L303B	2701-001040	INDUCTOR-AXIAL	10UH,10%,4514	1		
L424	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L503A	2702-001092	INDUCTOR-RADIAL	2.2uH,10%,4x6mm	1		
L605	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1		
L606	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1		
L607	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1		
L608	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1		
L702	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L704	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L705	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1		
L706	2701-000177	INDUCTOR-AXIAL	33UH,10%,2534	1		
L707	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L708	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L709	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L710	2701-000142	INDUCTOR-AXIAL	1UH,10%,2534	1		
L808	2701-001030	INDUCTOR-AXIAL	43UH,10%,4514	1		
L902	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L903	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L906	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L907	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L908	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L909	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L910	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
L911	2701-000114	INDUCTOR-AXIAL	10UH,10%,2534	1		
LD901	AA96-00555A	ASSY LED GUIDE	-,-,UEX-LD-030,GREEN	1	S.N.A	
⚠ LX801S	AA29-00015A	FILTER LINE NOISE	WS32W8,28-20MH 1.5A,+-	1		
M0014	AA97-16499G	ASSY AUTO-MAIN	CL29M40MQ2XXAX	1	S.N.A	
M0018	AA97-16124C	ASSY MICOM	T-RHMNSA-1027,K16A,TDA12005PQ	1		
M0081	6003-000335	SCREW-TAPTITE	RH,+,-,2S,M3,L8,ZPC(WHT),S	1	S.N.A	
M0081	6003-000335	SCREW-TAPTITE	RH,+,-,2S,M3,L8,ZPC(WHT),S	1	S.N.A	
M0081	6003-000333	SCREW-TAPTITE	RH,+,-,2S,M3,L10,ZPC(WHT),	1	S.N.A	
M0081	6003-000334	SCREW-TAPTITE	RH,+,-,2S,M3,L6,ZPC(WHT),S	1	S.N.A	
M0081	6003-000334	SCREW-TAPTITE	RH,+,-,2S,M3,L6,ZPC(WHT),S	1	S.N.A	
M0081	6003-000333	SCREW-TAPTITE	RH,+,-,2S,M3,L10,ZPC(WHT),	1	S.N.A	
M0081	6003-000334	SCREW-TAPTITE	RH,+,-,2S,M3,L6,ZPC(WHT),S	1	S.N.A	
M0081	6003-000333	SCREW-TAPTITE	RH,+,-,2S,M3,L10,ZPC(WHT),	1	S.N.A	
M0081	6003-000335	SCREW-TAPTITE	RH,+,-,2S,M3,L8,ZPC(WHT),S	1	S.N.A	
M2893	AA39-00376B	LEAD CONNECTOR	ET-PAL CIS,UL1007/1185#26	1		
P803T	1404-001264	THERMISTOR-PTC	4.5OHM,+30/-20%,220V,290V	1		
⚠ PC801S	0604-001032	PHOTO-COUPLER	TR,170-260%,300mW,DIP-4,ST	1		
Q207	0501-000283	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,T	1		
Q261	0501-000283	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,T	1		
Q262	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q401	AA96-00624H	ASSY HEAT SINK P	,SCREW,AA62-00057A,FJFA	1	S.N.A	
Q403	0502-001007	TR-POWER	KSC2073-H2,NPN,25W,TO-220,ST,6	1		
Q404	AA96-00624G	ASSY HEAT SINK P	SCREW,AA62-00057B,FQP63	1	S.N.A	
Q409	0505-001723	FET-SILICON	FQP630TSTU,N,200V,9A,0.4OHM,	1		
Q501	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q502	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q802	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q805	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q806	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q902	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		
Q903	0501-000283	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,T	1		
Q904	0501-000283	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,T	1		
Q905	0501-000389	TR-SMALL SIGNAL	KSC815,NPN,400mW,TO-92,T	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R105	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R106	2001-000947	R-CARBON	7.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R109	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R113	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R114	2001-000319	R-CARBON	120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R123	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R124	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R163	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R167	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R169	2004-001914	R-METAL	39Kohm,2%,1/8W,AA,TP,1.8x3.5mm	1		
R205	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R208	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R210	2001-000878	R-CARBON	6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R211	2001-000857	R-CARBON	560OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R213	2001-000908	R-CARBON	62KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R215	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R216	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R217	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R218	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R262	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R263	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R301	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R302	2004-001371	R-METAL(S)	1.5Kohm,1%,1/2W,AA,TP,2.4x6.4	1		
R303	2008-001076	R-FUSIBLE(S)	1.8ohm,5%,2W,AF,TP,3.9x10mm	1		
R304	2008-001015	R-FUSIBLE(S)	1.5ohm,5%,2W,AF,TP,3.9x10mm	1		
R305	2004-001371	R-METAL(S)	1.5Kohm,1%,1/2W,AA,TP,2.4x6.4	1		
R306	2001-000016	R-CARBON(S)	1OHM,5%,1/2W,AA,TP,2.4X6.4MM	1		
R307	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R309	2003-002205	R-METAL OXIDE(S)	330ohm,5%,2W,AG,TP,3.9X	1		
R310	2003-002205	R-METAL OXIDE(S)	330ohm,5%,2W,AG,TP,3.9X	1		
R311	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R312	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R318	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R401	2001-001072	R-CARBON(S)	12OHM,5%,1/2W,AA,TP,2.4X6.4M	1		
R402	2001-001070	R-CARBON(S)	120OHM,5%,1/2W,AA,TP,2.4X6.4	1		
R403	2001-000622	R-CARBON	300KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R404	2001-001114	R-CARBON(S)	270OHM,5%,1/2W,AA,TP,2.4X6.4	1		
R405	2001-001153	R-CARBON(S)	47ohm,5%,1/2W,AA,TP,2.4x6.4m	1		
R406	2001-000028	R-CARBON(S)	100OHM,5%,1/2W,AA,TP,2.4X6.4	1		
R407	2003-002151	R-METAL OXIDE	18KOHM,5%,2W,AG,TP,6X16MM	1		
R408	2004-001390	R-METAL(S)	1Kohm,2%,1/2W,AA,TP,2.4x6.4mm	1		
R409	2004-004015	R-METAL(S)	9.1Kohm,1%,1/2W,AA,TP,2.5x6.5	1		
R410	2004-001971	R-METAL(S)	6.2Kohm,1%,1/2W,AA,TP,2.5x6.5	1		
R411	2001-001164	R-CARBON(S)	56KOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R413	2008-000253	R-FUSIBLE(S)	0.47ohm,5%,1W,AF,TP,3.9x10m	1		
R414	2008-000264	R-FUSIBLE(S)	1ohm,5%,1W,AF,TP,3.9x10mm	1		
R418	2008-000292	R-FUSIBLE(S)	3.3ohm,5%,2W,AF,TP,3.9x10mm	1		
R419	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R422	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R423	2003-001042	R-METAL OXIDE(S)	5.6Kohm,5%,2W,AF,TP,3.9	1		
R424	2001-000012	R-CARBON	680KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R425	2004-000433	R-METAL	1Kohm,1%,1/8W,AA,TP,1.8x3.2mm	1		
R426	2003-000540	R-METAL OXIDE(S)	1Kohm,5%,2W,AF,TP,4x12m	1		
R427	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R428	2001-000258	R-CARBON	1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R429	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R431	2004-005059	R-METAL(S)	2.7KOHM,1%,1/2W,AA,TP,6.4X2.4	1		
R450	2008-000294	R-FUSIBLE(S)	33ohm,5%,2W,AF,TP,3.9x10mm	1		
R501	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R501H	2002-001017	R-COMPOSITION	1Kohm,10%,1/2W,AA,TP,3.7x9	1		
R502H	2002-001017	R-COMPOSITION	1Kohm,10%,1/2W,AA,TP,3.7x9	1		
R504	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R505	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R511	2002-001017	R-COMPOSITION	1Kohm,10%,1/2W,AA,TP,3.7x9	1		
R514	2001-001062	R-CARBON(S)	10MOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R520	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R521	2001-000679	R-CARBON	36KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R522	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R523	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R551	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R603	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R606	2001-000837	R-CARBON	51KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R607	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R608	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R609	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R610	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R620	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R621	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R622	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R623	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R701	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R702	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R703	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R704	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R705	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R706	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R707	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R708	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R709	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R712	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R713	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R714	2001-000969	R-CARBON	75OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R719	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R720	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R721	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R722	2001-000812	R-CARBON	5.6KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R726	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R727	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R728	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R729	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R730	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R802	2003-000586	R-METAL OXIDE(S)	22Kohm,5%,2W,AF,TP,4x12	1		
R803	2003-000586	R-METAL OXIDE(S)	22Kohm,5%,2W,AF,TP,4x12	1		
R804	2003-000586	R-METAL OXIDE(S)	22Kohm,5%,2W,AF,TP,4x12	1		
R805	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1		
R807	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4	1		
R808	2001-001150	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.	1		
R809	2001-001150	R-CARBON(S)	470KOHM,5%,1/2W,AA,TP,2.4X6.	1		
R810	2001-001097	R-CARBON(S)	2.4KOHM,5%,1/2W,AA,TP,2.4X6.	1		
R813	2009-001011	R-METAL PLATE	0.18ohm,10%,5W,CL,TP,5x14x	1		
R815	2008-000266	R-FUSIBLE(S)	1ohm,5%,2W,AF,TP,3.9x10mm	1		
R816	2004-001891	R-METAL(S)	133Kohm,1%,1/2W,AA,TP,2.5x6.5	1		
R817	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1		
R818	2001-001131	R-CARBON(S)	33KOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R819	2004-001983	R-METAL(S)	2.49Kohm,1%,1/2W,AA,TP,2.4x6.	1		
R820	2001-001088	R-CARBON(S)	1KOHM,5%,1/2W,AA,TP,2.4X6.4M	1		
R821	2004-001377	R-METAL(S)	120Kohm,1%,1/2W,AA,TP,2.4x6.4	1		
R823	2003-002020	R-METAL OXIDE(S)	56Kohm,5%,2W,AF,TP,3.9x	1		
R825	2003-002129	R-METAL OXIDE(S)	3.9ohm,5%,2W,AF,TP,3.9x	1		
R826	2003-002129	R-METAL OXIDE(S)	3.9ohm,5%,2W,AF,TP,3.9x	1		
R827	2008-001011	R-FUSIBLE(S)	0.18ohm,10%,2W,AF,TP,3.9x10	1		
R828	2003-002129	R-METAL OXIDE(S)	3.9ohm,5%,2W,AF,TP,3.9x	1		
R829	2001-001078	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R830	2001-001078	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R831	2001-001078	R-CARBON(S)	15KOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R832	2001-001079	R-CARBON(S)	15OHM,5%,1/2W,AA,TP,2.4X6.4M	1		
R833	2001-000007	R-CARBON	3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R836	2001-001138	R-CARBON(S)	390OHM,5%,1/2W,AA,TP,2.4X6.4	1		
R841	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R895	2001-001152	R-CARBON(S)	47KOHM,5%,1/2W,AA,TP,2.4X6.4	1		
R901	2001-000440	R-CARBON	1OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R902	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R903	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R905	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R906	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R908	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R910	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R911	2001-000347	R-CARBON	13KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R912	2001-000347	R-CARBON	13KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R913	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8x3.2mm	1		
R914	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R915	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R916	2001-000878	R-CARBON	6.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R917	2001-000347	R-CARBON	13KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R918	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R919	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R920	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R921	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R923	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R924	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R925	2001-000440	R-CARBON	1OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R926	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R927	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R928	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
R929	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R930	2001-000007	R-CARBON	3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R932	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R933	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R934	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R935	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R936	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R939	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
R941	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
RL801	3501-001053	RELAY-POWER	5Vdc,530mW,10000mA,1FormA,15	1		
RM901	AA32-00015A	Module Remocon	FRP-3521H31,38KHZ,940MM,M	1		
RP100	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
RP101	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
RP102	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	1		
RP16	2003-002064	R-METAL OXIDE(S)	7.5OHM,5%,2W,AF,TP,3.9X	1		
RP17	2003-002064	R-METAL OXIDE(S)	7.5OHM,5%,2W,AF,TP,3.9X	1		
⚠ RP801S	2002-001010	R-COMPOSITION	1.8Mohm,5%,1/2W,AA,TP,3.7x	1		
⚠ RY801S	2002-001012	R-COMPOSITION	8.2Mohm,5%,1/2W,AA,TP,3.7x	1		
SF101	2904-001107	FILTER-SAW AV	45.75MHz,SIP5K,TP,12.6dB,N	1		
SF102	2904-001418	FILTER-SAW AV	45.75MHZ,-,ST,-,-,-	1		
T0010	AA27-00286A	COIL CHOKE	1MH,CPTTV,1MH,10%,0.5OHM,1A,D	1		
T0066	AA62-30181V	HEAT SINK-ES	CT-29M16V,AL6063,T2.0,64,40	1	S.N.A	
T0066	AA62-30182F	HEAT SINK-ES	CS29M6,A6063S,T2.0,26.2,52.	1	S.N.A	
T0074	1201-002244	IC-VIDEO AMP	TDA6108AJF,DBS9MPF,9P,21.8x	1		
T0077	AA41-01172D	PCB MAIN	CL29M21MQ,FR-1,1,00,1.6,330X245	1	S.N.A	
T0085	1201-002118	IC-AUDIO AMP	TDA7297SA,ZIP,15P,-,DUAL,32	1		
T0087	1203-003954	IC-POSI.FIXED REG.	KA78R05CTU,TO-220F,4P	1		
T0087	1203-001944	IC-POSI.FIXED REG.	78RM33,TO-220,3P,-,PL	1		
T0087	1203-004010	IC-POSI.FIXED REG.	KA78R08CTU,TO-220F,4P	1		
T0088	1204-002183	IC-VERTICAL PROCESSO	LA78045,TO220,7P,15	1		
T0105	AA60-30001A	WASHER-PLATE	M3,ID3.5,15X8.5,T1.0,SBHG	1	S.N.A	
T0175	AA62-00045A	HEAT SINK-PS	-,-,T1.0,-,-,DREAM,-,-,-,-,	1	S.N.A	
T0175	AA62-00045A	HEAT SINK-PS	-,-,T1.0,-,-,DREAM,-,-,-,-,	1	S.N.A	
T0175	AA62-00045A	HEAT SINK-PS	-,-,T1.0,-,-,DREAM,-,-,-,-,	1	S.N.A	
T0175	AA62-00056A	HEAT SINK-PS	-,-,T1.0,-,41*35*70,D2,-,-,	1	S.N.A	
T0175	AA62-00057B	HEAT SINK-PS	CT-29K12P,A1050S,1.0,41,60,	1	S.N.A	
T0175	AA62-00057A	HEAT SINK-PS	-,-,T1.0,-,41*20*60,D2,-,-,	1	S.N.A	
T0175	AA62-30175D	HEAT SINK-PS	-,SECC,T1.0,-,33X15X30 FT-2	1	S.N.A	
T0245	0202-001492	SOLDER-WIRE FLUX	HSE-02 LFM48 SR-34 S,-,	0.25	S.N.A	
T0296	AA27-30003W	COIL LINEARITY	54uH,YL81DR14x15,11mm,18x	1		
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1		
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1		
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1		
T0310	4715-000001	SURGE ABSORBER	1000V,+50-10%,-,-,-	1		
T0313	3404-001004	SWITCH-TACT	12V,50mA,160gf,8.4x22.7mm,SP	1		
T0313	3404-001252	SWITCH-TACT	12VDC,50MA,130GF,7.5X7.1,1	1		
T0313	3404-001252	SWITCH-TACT	12VDC,50MA,130GF,7.5X7.1,1	1		
T0313	3404-001252	SWITCH-TACT	12VDC,50MA,130GF,7.5X7.1,1	1		
T0313	3404-001252	SWITCH-TACT	12VDC,50MA,130GF,7.5X7.1,1	1		
T0313	3404-001252	SWITCH-TACT	12VDC,50MA,130GF,7.5X7.1,1	1		
T0900	1404-001045	THERMISTOR-NTC	4.7ohm,4.565A,2900K,-,-,-	1		
T401	AA26-50001R	TRANS-H.DRIVE	-,-,-,80MH,-,-,520UH,-,-,-	1		
T444	AA26-00057C	TRANS FBT	FUH29A001G,CPTTV,3.56,4177,FER	1		
⚠ T801S	AA26-00228D	TRANS SWITCHING	42B135-**,CORE,80V~280V,	1		
⚠ V999S	3704-001197	SOCKET-CRT	8P+SEN,29PI,22.5PI,NI+SN,-	1		
VP801	1405-000152	VARISTOR	560V,2500A,14x8.5mm,TP	1		
⚠ VX801S	1405-000187	VARISTOR	615Vdc,1250A,12.5x7mm,TP	1		
X201	2801-003316	CRYSTAL-UNIT	24.576MHz,30ppm,28-AAM,20pF	1		
	0402-001374	DIODE-RECTIFIER	FFPF06U20S,200V,6A,TO-22	1		
T0091	AA94-15813C	ASSY PCB MISC-A/V SIDE	29K40,S16A	1		
JA333	3722-001164	JACK-PIN	3P,SN,WH:YE:RE,STRAIGHT	1		
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
L2514	3301-000287	BEAD-AXIAL	,3.5x1.0x6.0mm,3000mA,TP,,,50	1	S.N.A	
M2893	AA39-20068J	LEAD CONNECTOR	,8P,600MM,YBNH250-08,6709	1		
PCB	AA41-01212A	PCB SUB-SIDE A/V	KS7D,FR-1,-,00,1.6,245*	1	S.N.A	
T0245	0202-001492	SOLDER-WIRE FLUX	HSE-02 LFM48 SR-34 S,-,	0.003	S.N.A	
T0569	AA97-16525C	ASSY AUTO-A/V SIDE	29K40	1	S.N.A	

ASSY ACCESSORY

M0045	AA92-11656Z	ASSY ACCESSORY	CL29M40MQ2XXAX	1	S.N.A	
T0524	6902-000009	BAG PE	HDPE,T0.03,L400,W240,TRP,8,2,PE M	1	S.N.A	
T0074	AA59-00385A	REMOCON	TIMECOP,TM85,39,INTERACE,NTSC,NO	1		
T0210	AA68-03242F	MANUAL FLYER-01,SAFETY GUIDE	All Model,S	1	S.N.A	
	AA68-03777A	MANUAL USERS-CARD,03	comm,Samsung,Englis	1	S.N.A	

Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
M0753	AA68-03859A	MANUAL USERS-04	comm,Samsung,Spanish,S.A	1	S.N.A	
	BN68-00797A	MANUAL FLYER-03,WARRANT CARD	SAMEX BASIC	1	S.N.A	
T0238	BP68-00515A	MANUAL FLYER-REGISTRATION CARD		PRC CARD, 1	S.N.A	

ASSY BOX

M0003	AA92-11831A	ASSY BOX	CL29M40MQ2XXAX	1	S.N.A	
T0130	AA69-03590A	BOX-00,SET	29M40(OVERSEA),CB,DY-06,AB,YE	1.01	S.N.A	

ASSY P/MATERIAL

M0113	AA92-11832A	ASSY P/MATERIAL	29M40	1	S.N.A	
T0376	6902-000001	BAG AIR	LDPE,T0.2,L1800,W1000,TRP,,,LDPE	0.018	S.N.A	
T0524	6902-000007	BAG PE	HDPE/NITRON/HDPE,T0.015/T0.5/T0.0	1	S.N.A	
T0376	6902-000061	BAG AIR	LDPE,T0.2,L1000,W500,TRP,,,	0.05	S.N.A	
T0214	AA60-40006A	PIN-STAPLE	AUTO,33X17.8X2.4,H18,33X17.8X	6	S.N.A	
T0172	AA69-02609A	BAND-PP	W18,CLEA,1G	5.9	S.N.A	

ASSY COVER FRONT

M0001	AA90-05608A	ASSY COVER FRONT	CL29M40MQ2XXAX	1	S.N.A	
T0081	6002-000522	SCREW-TAPPING	TH,+,2,M4,L15,ZPC(BLK),SWR	2	S.N.A	
M0081	6003-001026	SCREW-TAPTITE	RH,+,B,M4,L15,ZPC(BLK),SWR	7		
M0081	6003-001026	SCREW-TAPTITE	RH,+,B,M4,L15,ZPC(BLK),SWR	2		
M0081	6003-001268	SCREW-TAPTITE	TH,+,-,B,M4,L12,ZPC(WHT),S	1	S.N.A	
T0609	AA60-00095C	SPACER-GUM,CRT	2160(TTSEC),-,20MM,5MM,BL	4	S.N.A	
T0238	AA60-10050V	BOLT-HEX	-,SWRCH18A,M6,L30,HH,+,WC,-,Z	4	S.N.A	
T0569	AA61-00813D	SUPPORT-CRT	29Z30(SLIM),HIPS V0,T2.0,-,-	1	S.N.A	
	AA61-01316A	BRACKET	29 ALL,STS304,T0.5,,,,	2	S.N.A	
T0003	AA96-04371A	ASSY COVER P-FRONT	29M40,HIPS,HB,GR503,B	1		
T0082	3001-001592	SPEAKER	15W,8ohm,92dB/1W,0.5m,140Hz	2		
M0081	6003-001019	SCREW-TAPTITE	RH,+,-,B,M4,L12,ZPC(BLK),S	1		
M0081	6003-001019	SCREW-TAPTITE	RH,+,-,B,M4,L12,ZPC(BLK),S	8		
M0081	6003-001019	SCREW-TAPTITE	RH,+,-,B,M4,L12,ZPC(BLK),S	1		
M2893	AA39-00369B	LEAD CONNECTOR	KS7A/CL29M21,UL1007#22,4P	1		
T0069	AA60-00091J	SPACER-FELT	-,FELT,330X10,-,-,BLK,T0.5,-	1	S.N.A	
T0069	AA60-00091R	SPACER-FELT	,FELT,250X10,,,BLK,T0.5,,	2	S.N.A	
T0607	AA61-40113A	STOPPER-PCB	501H,HIPS,-,-,HB,NTR,-	1	S.N.A	
CIS7	AA61-60003J	SPRING ETC-CS	-,SUS304,-,-,OD6,N7,OD6,-,	1	S.N.A	
M0112	AA63-01502A	COVER-FRONT	29M40(SAMEX),HIPS,T2.6,HB,BK	1	S.N.A	
T0023	AA64-04399A	KNOB POWER	29M40(SAMEX),ABS,HB,SVM3012	1	S.N.A	
T0022	AA64-04400A	KNOB CONTROL	29M40(SAMEX),ABS,HB,SVM3012	1	S.N.A	
	AA64-04401A	WINDOW-RMC LED	29M40(SAMEX),PC,CLEAR	1	S.N.A	
T0057	AA64-70117B	BADGE-BRAND	,AL,T1.5,10.6,L65,BLK,SILVER	1	S.N.A	
T0527	AA65-00011C	CLAMPER CORE-WIRE	ALL MODEL,NYLON 66,V2,	1	S.N.A	
T0527	AA65-30105A	CLAMPER CORE-WIRE	ALL MODEL,NYLON 66,V2,	1	S.N.A	
T0382	BP61-00509C	HOLDER-CARE	PJT,ACRYL-FOAM,T0.25,W20.0mm	0.28	S.N.A	
T0382	BP61-00495C	HOLDER-CARE	PJT,ACRYL-FOAM,T0.25,W30.0mm	0.2	S.N.A	

ASSY COVER REAR

M0002	AA90-05609A	ASSY COVER REAR	29M40,HIPS,HB,GR503,BK50	1	S.N.A	
T0069	AA60-00091J	SPACER-FELT	-,FELT,330X10,-,-,BLK,T0.5,-	3	S.N.A	
M0006	AA63-01503A	COVER-REAR	29M40(SAMEX),HIPS,T2.5,HB,BK5	1	S.N.A	
T0066	AA64-03974H	INLAY-BACK	K16A,PS,SHEET,T0.3,BLK,RCA9P+	1	S.N.A	
T0578	AA64-04297R	INLAY AV	29K40,T0.3,BLK,GREEN	1	S.N.A	
T0522	AA65-30008A	CLAMPER CORE-CORD	-,PE,HB,-,BLK,-	1	S.N.A	

ASSY CPT

T0521	AA91-09537R	ASSY CPT	A68QFN793X001,+380,TIMECOP 29K4	1	S.N.A	
⚠ T0063	AA03-00420A	CRT COLOR	A68QFN793X001,+380,1.09,20.0,1	1		
T0089	AA27-00348A	COIL DEGAUSSING	29,CPTTV,8.5mH,60T,4.5O	1		
T0527	AA61-01373A	HOLDER-D COIL	29K5,NYLON 66	4	S.N.A	
T0064	AA65-00047A	CLAMPER CORE	D-Coil Clamp,NYLON 6/6,V0,	4	S.N.A	
T0603	AA98-70010B	ASSY TBC WIRE P	KS3A/CW29A6VN,29,NTSC,2P	1	S.N.A	

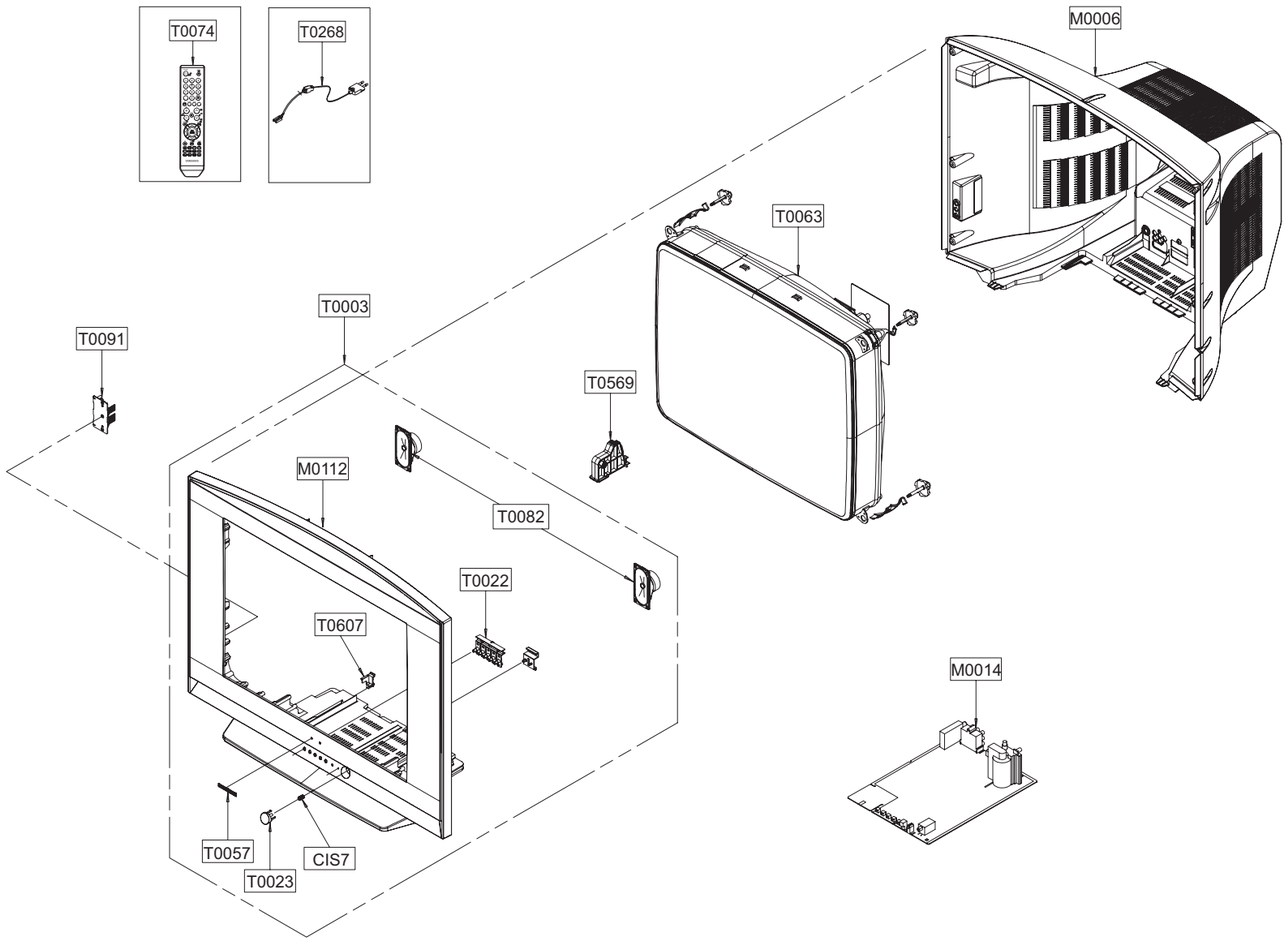
Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA	Remark
		ASSY FIXING				
T0892	AA91-09950A	ASSY FIXING	CL29K40PQ2XXAX	1	S.N.A	
⚠ T0268	AA39-10006K	CBF-POWER CORD	-,KJ-10,SPT-2 2/18AWG,240	1		
M2893	AA39-20010B	LEAD CONNECTOR	,1P,500,YFH800-01,S,1617#	1		
T0245	AA39-20010D	LEAD CONNECTOR-ASSY	,1P,400,YFH800-01,S,	1		
T0010	AA61-20284A	HOLDER	P-CORD,PP,-,-,-,BLK,VO,KE-002	1	S.N.A	
T0016	AA65-30009A	CLAMPER CORE-FBT	-,ABS,V0,-,BLK,-	1	S.N.A	
T0527	AA65-30018A	CLAMPER CORE-WIRE	DONG-A,NYLON-66,-,-,-	1	S.N.A	
T0527	AA65-30104C	CLAMPER CORE-WIRE	ALL MODEL,NYLON 66,V2,	1	S.N.A	

MEMO

4. Exploded View & Part List

4-1 CL29M40MQ2XXAX

You can search for the updated part code through ITSELF web site.
URL:http://itself.sec.samsung.co.kr



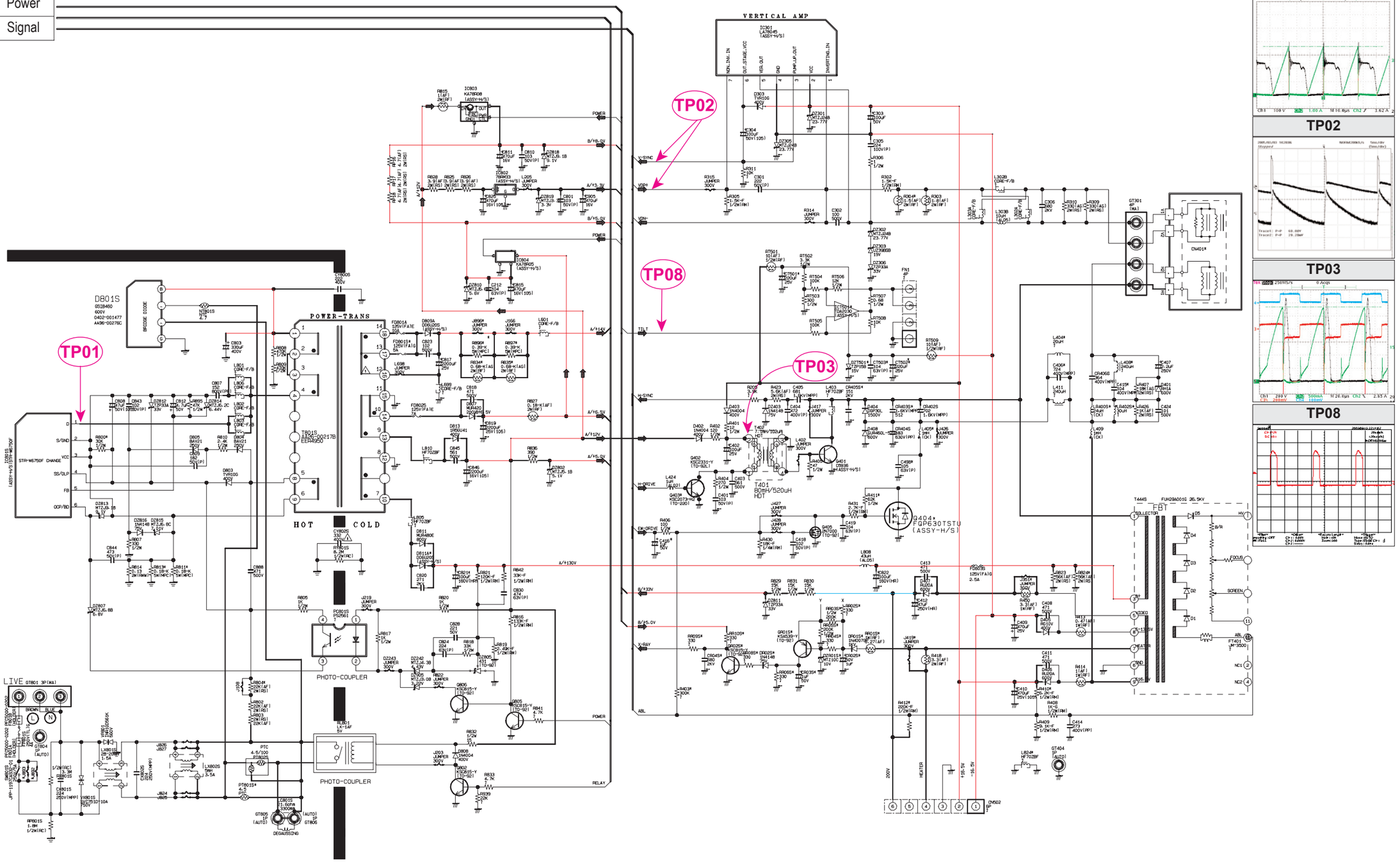
Loc.No.	Code No.	Description	Specification	Q'ty	SA/SNA
CIS7	AA61-60003J	SPRING ETC-CS	-,SUS304,-,-,OD6,N7,OD6,-,	1	S.N.A
M0006	AA63-01503A	COVER-REAR	29M40(SAMEX),HIPS,T2.5,HB,BK5	1	S.N.A
M0014	AA94-16007C	ASSY PCB MAIN	CL29M40MQ2XXAX	1	S.A
M0112	AA63-01502A	COVER-FRONT	29M40(SAMEX),HIPS,T2.6,HB,BK	1	S.N.A
T0003	AA96-04371A	ASSY COVER P-FRONT	29M40,HIPS,HB,GR503,B	1	S.A
T0022	AA64-04400A	KNOB CONTROL	29M40(SAMEX),ABS,HB,SVM3012	1	S.N.A
T0023	AA64-04399A	KNOB POWER	29M40(SAMEX),ABS,HB,SVM3012	1	S.N.A
T0057	AA64-70117B	BADGE-BRAND	,AL,T1.5,10.6,L65,BLK,SILVER	1	S.N.A
T0063	AA03-00420A	CRT COLOR	A68QFN793X001,+380,1.09,20.0,1	1	S.A
T0074	AA59-00385A	REMOCON	TIMECOP,TM85,39,INTERACE,NTSC,NO	1	S.A
T0082	3001-001592	SPEAKER	15W,8ohm,92dB/1W,0.5m,140Hz	2	S.A
T0091	AA94-15813C	ASSY PCB MISC-A/V SIDE	29K40,S16A	1	S.A
T0268	AA39-10006K	CBF-POWER CORD	-,KJ-10,SPT-2 2/18AWG,240	1	S.A
T0569	AA61-00813D	SUPPORT-CRT	29Z30(SLIM),HIPS V0,T2.0,-,-	1	S.N.A
T0607	AA61-40113A	STOPPER-PCB	501H,HIPS,-,-,HB,NTR,-	1	S.N.A

10. Schematic Diagram

10-1 Power & Deflection Block

This Document can not be used without Samsung's authorization.

———	Power
———	Signal

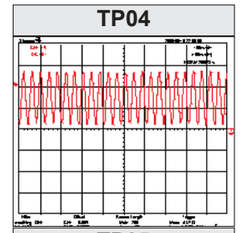


10-2 IF & UOC(Chroma_Micom) Block

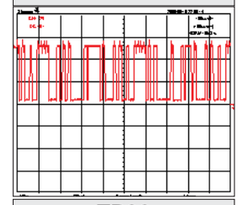
This Document can not be used without Samsung's authorization.

———	Power
———	Signal

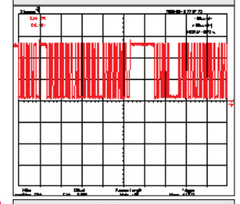
TP04



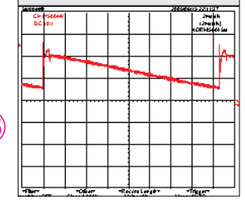
TP05



TP06



TP07

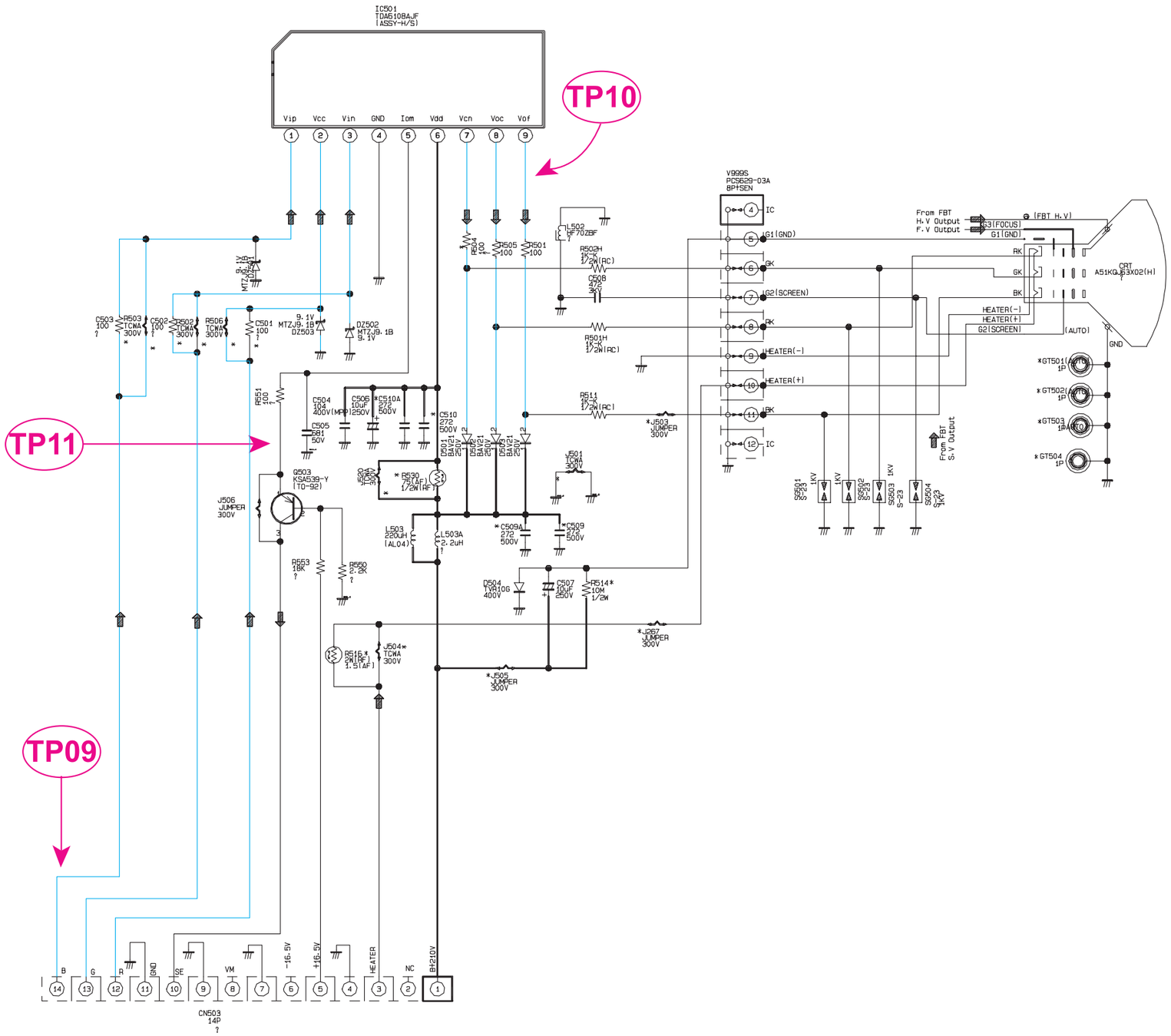


10-3 PIP & CRT Block

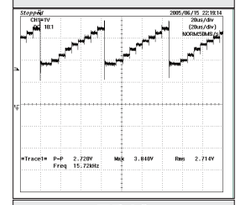
This Document can not be used without Samsung's authorization.

———	Power
———	Signal

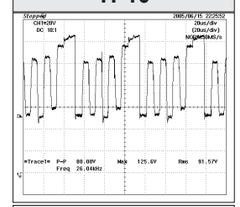
CRT (MAIN SUB CRT)



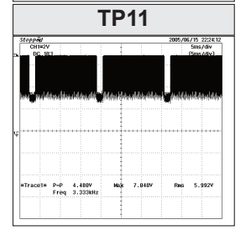
TP09



TP10

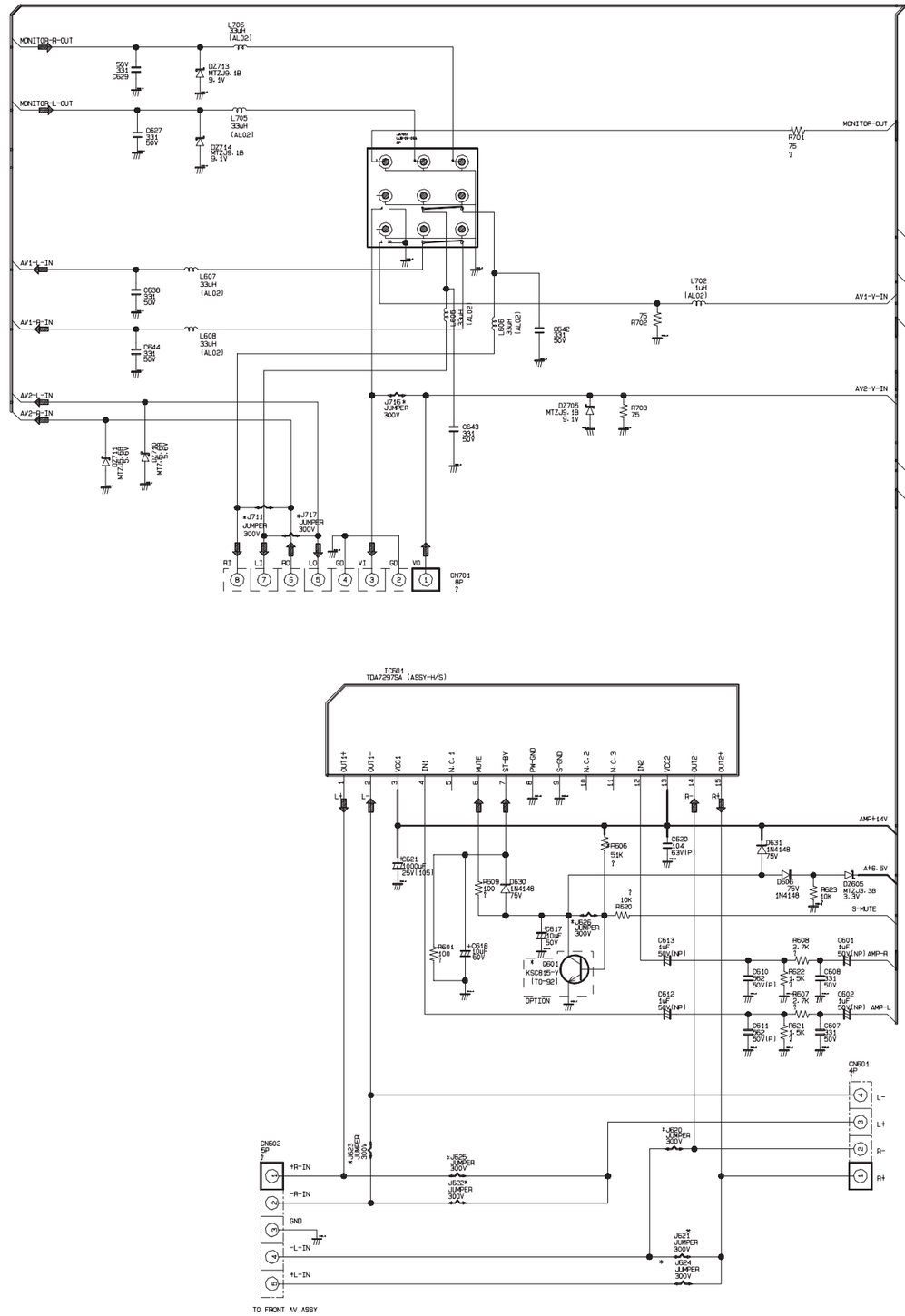


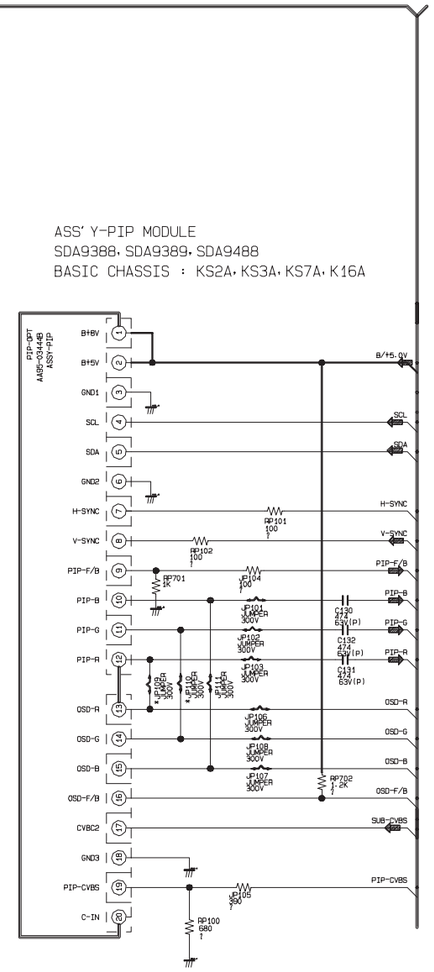
TP11



10-4 AV & Sound Block

This Document can not be used without Samsung's authorization.




ASS'Y-PIP MODULE
SDA9388, SDA9389, SDA9488
BASIC CHASSIS : KS2A, KS3A, KS7A, K16A
PIP-OPT AA85-03448 ASSY-PIP
B+8V B+5V GND1 SCL SDA GND2 H-SYNC V-SYNC PIP-F/B PIP-B PIP-G PIP-R OSD-R OSD-G OSD-B OSD-F/B CVBC2 GND3 PIP-CVBS C-IN
B/+5.0V SCL SDA H-SYNC V-SYNC PIP-F/B PIP-B PIP-G PIP-R OSD-R OSD-G OSD-B OSD-F/B SUB-CVBS PIP-CVBS
RP101 100 ?
RP102 100 ?
RP104 100 ?
RP701 1K ?
*JP101 JUMPER 300V
*JP102 JUMPER 300V
*JP103 JUMPER 300V
*JP106 JUMPER 300V
*JP108 JUMPER 300V
*JP107 JUMPER 300V
C130 474 63V(P)
C132 474 63V(P)
C131 474 63V(P)
RP702 1.2K ?
RP105 390 ?
RP100 680 ?